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CHICAGO, U. S. A.
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ZOOLOGICAL SERIES

VOL. VIII

A CATALOGUE
OF THE
COLLECTION OF MAMMALS
IN THE
FIELD COLUMBIAN MUSEUM

BY

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CHICAGO, U. S. A.
1907.

PREFACE.

The present Catalogue purports to give the names and the number of specimens of Mammals in the Field Columbian Museum up to the date of issue. When the Author took charge of the Department of Zoölogy, as constituted in this Institution, the collection of Mammals was composed of a limited number of mounted examples furnished by the Ward Natural Science Establishment of Rochester, New York, many of them not freshly prepared, and nearly all with unreliable data of locality, causing them to be practically of little scientific value specifically, but useful to a certain degree as representatives of genera. There were no mammal skins, and consequently a study collection did not exist. At the present time a fair start has been made, and about fifteen thousand specimens are now in the Museum collection, the major portion, as is proper, being unmounted and reserved for scientific study and comparison. Knowing that the value of a museum's material depends greatly upon how much is available for scientific research, it has been the Author's policy to restrict the number of mounted specimens to as few as would give a proper conception as possible to the visitor, of the Order, Family, and usually the species, represented. To go beyond this would be but the production of useless repetitions, wearying to the observer and profitable to no one. Naturally, when beginning the formation of a collection, the material nearest at hand was sought, and consequently the mammalian fauna of the United States occupies the largest portion of the Catalogue. The Author has not, however, been unmindful of exotic forms, and as many foreign species have been procured as possible, rather special attention having been given to Wild Horses and African Antelopes,—important and beautiful creatures advancing rapidly toward extinction. Although purchases have been liberally made, yet by such means the making of a collection would be necessarily slow and unsatisfactory, for the main dependence for achieving success and a collection at the same time is, of course, work in the field. The expedition to Africa under the Author's leadership produced large results, and numbers of valuable specimens were secured, the majority being various species of Antelopes. By keeping collectors constantly at work, mostly thus far in North America, it has been possible to bring together a sufficiently large number of specimens to constitute a nucleus for the grand collection it is hoped the Museum may eventually possess, and cause it to take

its position in the front rank of the great world-embracing Institutions devoted to the scientific study of Natural History, and whose influence is felt and recognized throughout the earth. In the exhibition of mammals much attention, and, it may be added space also, has been given to groups, and specimens of single species of different ages and sexes have been brought together and placed in a miniature landscape of the country in which they once dwelt. Their environment was thus the natural one. When practicable this is the most satisfactory method of exhibiting specimens; but it is limited, for no matter how large the museum building may be, only a very small portion of a collection could be so arranged, and if continued to any excess, other and equally important exhibits could not be shown. Mounting specimens in groups, therefore, must from sheer necessity be always limited.

Every example in the Museum that has passed through the Author's hands is contained in this Catalogue, together with all the information possessed regarding it; commencing with the sex, whether collected, purchased, presented, or exchanged, followed by the locality in which it was taken, the person or institution from which it was procured, ending with the name of the collector. The signs and abbreviations used are: ♂, male; ♀, female; Coll., collected; P., purchased; Pres., presented; and Exch., exchanged. The arrangement is that of the Check-List of Mammals of the North American Continent and West Indies, as far as that work goes, viz.: for the mammals of the North American fauna, the exotic species being relegated to their various positions in accordance with the system of classification adopted by the Author. One species is described, a bat, *Uroderma validum*, on page 538, the discovery that the specimens represented a new form having been made too late for the Author to avail himself of any of the usual channels of publication and include it at the same time in the present work.

In conclusion, it gives me much pleasure to acknowledge my indebtedness to Mr. W. J. Gerhard, Assistant Curator of Entomology, for his valuable aid in reading the proofs as the work passed through the press, and also for constructing the index, in which task considerable help was rendered by my assistant, Mr. E. B. Chope.

D. G. E.

December, 1906.

LIST OF FIGURES IN THE TEXT.

FIG.		PAGE.
I.	<i>Caluromys derbianus</i>	5
II.	<i>Choloepus hoffmanni</i>	21
III.	<i>Tamandua tetradactyla</i>	23
IV.	<i>Tatu novemcinctum</i>	26
V.	<i>Manis tetradactyla</i>	28
VI.	<i>Trichechus manatus</i>	29
VII.	<i>Macrocephalus africanus</i>	33
VIII.	<i>Odontocœlus a. couesi</i>	47
IX.	<i>Hippocamelus sartori</i>	51
X.	<i>Antilocapra a. mexicana</i>	53
XI.	<i>Bubalis swaynii</i>	54
XII.	<i>Damaliscus pygargus</i>	57
XIII.	<i>Connochaetes gnu</i>	59
XIV.	<i>Cobus maria</i>	68
XV.	<i>Saiga tartarica</i>	73
XVI.	<i>Pantholops hodgsoni</i>	74
XVII.	<i>Ammodorcas clarkii</i>	79
XVIII.	<i>Boöcerus eurycerus</i>	86
XIX.	<i>Limnotragus gratus</i>	87
XX.	<i>Strepsiceros strepsiceros</i>	89
XXI.	<i>Capra cylindricornis</i>	93
XXII.	<i>Ovis ammon</i>	97
XXIII.	<i>Tapirella dowi</i>	101
XXIV.	<i>Equus burchelli</i>	103
XXV.	<i>Rhinocerus sumatrensis</i>	105
XXVI.	<i>Sciurus aureigaster</i>	127
XXVII.	<i>Tamias obscurus</i>	147
XXVIII.	<i>Citellus variegatus</i>	175
XXIX.	<i>Cynomys ludovicianus</i>	180
XXX.	<i>Sciuropterus volans</i>	187
XXXI.	<i>Castor c. frondator</i>	191
XXXII.	<i>Rhithrodontomys megalotis</i>	257
XXXIII.	<i>Neotoma micropus</i>	268
XXXIV.	<i>Hodomys alleni</i>	281
XXXV.	<i>Microtus c. hyperythrus</i>	293
XXXVI.	<i>Dipodomys merriami</i>	323
XXXVII.	<i>Heteromys alleni</i>	346
XXXVIII.	<i>Erethizon epixanthum</i>	359
XXXIX.	<i>Coendu mexicanum</i>	360
XL.	<i>Lepus alleni</i>	378
XLI.	<i>Felis onca</i>	388
XLII.	<i>Felis r. baileyi</i>	395
XLIII.	<i>Cryptoprocta ferox</i>	397
XLIV.	<i>Mongos mungo</i>	402
XLV.	<i>Lycaon pictus</i>	406
XLVI.	<i>Canis mexicanus</i>	412

FIG.		PAGE.
XLVII.	<i>Vulpes macrotis</i>	415
XLVIII.	<i>Urocyon c. fraterculus</i>	419
XLIX.	<i>Ursus h. horriæus</i>	421
L.	<i>Bassariscus astutus</i>	424
LI.	<i>Procyon l. hernandezi</i>	426
LII.	<i>Nasua nasica</i>	428
LIII.	<i>Potos flavus</i>	429
LIV.	<i>Taxidea t. berlandieri</i>	431
LV.	<i>Mephitis macrura</i>	436
LVI.	<i>Conepatus m. mearnsi</i>	438
LVII.	<i>Spilogale interrupta</i>	439
LVIII.	<i>Putorius frenatus</i>	453
LIX.	<i>Latax lutris</i>	455
LX.	Group of Fur Seals	458
LXI.	<i>Phoca richardi</i>	462
LXII.	<i>Sorex o. ventralis</i>	470
LXIII.	<i>Blarina pergracilis</i>	477
LXIV.	<i>Solenodon cubanus</i>	486
LXV.	<i>Rhinolophus ferrum-equinum</i>	497
LXVI.	<i>Vespertilio fuscus</i>	510
LXVII.	<i>Rhogoessa tumida</i>	516
LXVIII.	<i>Molossus rufus</i>	522
LXIX.	<i>Otopterus waterhousei</i>	527
LXX.	<i>Phyllostoma hastatum</i>	530
LXXI.	<i>Chceronycteris mexicana</i>	533
LXXII.	<i>Brachyphylla nana</i>	535
LXXIII.	<i>Artibeus jamaicensis</i>	536
LXXIV.	<i>Uroderma validum</i> sp. nov.	538
LXXV.	<i>Desmodon rotundum</i>	540
LXXVI.	<i>Lemur catta</i>	545
LXXVII.	<i>Hapalolemur griseus</i>	546
LXXVIII.	<i>Nycticebus coucang</i>	550
LXXIX.	<i>Tarsius tarsius</i>	551
LXXX.	<i>Daubentonia madagascariensis</i>	552
LXXXI.	<i>Alouatta palliata</i>	555
LXXXII.	<i>Pithecia pithecia</i>	557
LXXXIII.	<i>Saimiri oerstedii</i>	558
LXXXIV.	<i>Ateles vellerosus</i>	560
LXXXV.	<i>Cebus hypoleucus</i>	561
LXXXVI.	<i>Papio maimon</i>	563
LXXXVII.	<i>Papio leucophæus</i>	564
LXXXVIII.	<i>Papio hamadryas</i>	565
LXXXIX.	<i>Nasalis larvatus</i>	570
XC.	<i>Colobus guereza</i>	574
XCI.	<i>Hylobates lar</i>	576
XCII.	<i>Simia p. chimpanse</i>	578

CLASS MAMMALIA.

SUBCLASS I. PROTOTHERIA.

Order I. **Monotremata. Monotremes.**

Family I. **Ornithorhynchidæ.**

Genus I. **Ornithorhynchus. Duck-bill.**

Ornithorhynchus Blumenb., Götting. Gelehr. Anz., 1, Apr. 19, 1800, p. 609. Type *Ornithorhynchus paradoxus* Blumenbach = *Platypus anatinus* Shaw.

Platypus Shaw, Nat. Misc., x, 1799, text to pl. 385. (nec Herbst, 1793. Coleopt.)

1. **Ornithorhynchus anatinus** (Shaw).

Platypus anatinus Shaw, Nat. Misc., x, 1799, pls. 385, 386. *Id.* Gen. Zoöl., 1, 1800, Pt. 1, p. 229, pls. 66, 67.

Ornithorhynchus paradoxus Blumenb., Voigt's Mag. Naturk., 11, 1800, p. 205

Dermipus anatinus Wiedem., Archiv f. Zool., Pt. 1, 1800, p. 180, pl. III.

Ornithorhynchus fuscus Péron & Lesueur, Voy. Terres Austr., 1807, pl. xxxiv.

Ornithorhynchus rufus Péron & Lesueur, Voy. Terres Austr., 1807, pl. xxxiv.

Ornithorhynchus brevirostris Ogilby, Proc. Zoöl. Soc., 1831, p. 150.

Ornithorhynchus crispus Macgilliv., Mem. Wern. Soc., VI, 1832, p. 128.

Ornithorhynchus lævis Macgilliv., Mem. Wern. Soc., VI, 1832, p. 132.

Ornithorhynchus anatinus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 191. Thomas, Cat. Marsup. & Monotr. Brit. Mus., 1888, p. 388.

DUCK-BILLED PLATYPUS.

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family II. **Tachyglossidæ.**Genus 2. **Tachyglossus. Echidnas.**

Tachyglossus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 114.

Type *Myrmecophaga aculeata* Shaw.

Echidna G. Cuv., Tabl. Élém., 1798, p. 143. (nec Forster, 1788, Pisces.)

Echinopus G. Fisch., Zoogn., III, 1814, p. 691.

2. Tachyglossus aculeatus (Shaw).

Myrmecophaga aculeata Shaw, Nat. Misc., III, 1792, pl. cix. *Id.*

Gen. Zoöl., I, Pt. I, 1800, p. 175, pl. LIV.

Ornithorhynchus hystrix Home, Phil. Trans., 1802, p. 348, pls. X-XII.

Echidna hystrix E. Geoff., Cat. Mus., 1803, p. 224.

Echidna australiensis Less., Man. Mamm., 1827, p. 318.

Echidna acanthion Coll., Forh. Vid. Selsk., 1884, No. 13. *Id.*

Proc. Zoöl. Soc., 1885, p. 148, pl. x.

COMMON ECHIDNA.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Tachyglossus aculeatus setosus (E. Geoffroy).

Echidna setosa E. Geoff., Cat. Mus., 1803, p. 226.

Echidna breviaculeata Tiedem., Zool., I, 1808, p. 592.

Tachyglossus setosus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 114.

Echinopus setosus G. Fisch., Zoogn., III, 1814, p. 694.

HAIRY ECHIDNA.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

SUBCLASS II. METATHERIA.

Order II. **Marsupialia. Marsupials.**

Family I. **Didelphyidæ. Opossums.**

Genus 3. **Marmosa.**

Marmosa Gray, Lond. Med. Repos., xv., 1821, p. 308. Type *Didelphis! murina* Linnæus.

Micoureus Less., Tabl. Règn. Anim., 1842, p. 186.

Asagis Glog., Hand- u. Hilfsb. Naturg., 1, 1841, p. 82.

Notagogus Glog., Hand- u. Hilfsb. Naturg., 1, 1841, p. 82.

Thylamys (sic) Gray, List Spec. Mamm. Brit. Mus., 1843, p. 101.

Grymæomys Burm., Syst. Uebers. Thiere Bras., 1, 1854, p. 135.

Microdidelphis! Burm., Erläut. Faun. Bras., 1856, p. 83, Taf. xiv, fig. 2, xv, figs. 1, 2.

Cuica Liais, Climats, Géol., Faun. et Geog., Botan. Brésil, 1872, p. 427.

3. **Marmosa murina** (Linnæus).

Didelphis! murina Linn., Syst. Nat., 1, 1758, p. 55.

Didelphis! dorsigera Linn., Syst. Nat., 1, 1758, p. 55.

Didelphys cayopollin Schreb., Säugth., III, 1778, p. 544, pl. CXLVIII.

Didelphis! guianensis Kerr, Linn. Anim. Kingd., 1792, p. 194.

Didelphis! impavida Tschudi, Faun. Peruana, 1844, p. 149, pl. ix.

Didelphys musculus Cab., Schomb. Brit. Guiana, III, 1848, p. 778.

Marmosa murina Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 5. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 2. Zoöl. Ser.

MURINE OPOSSUM. *Tlacuazin Ratton* in Guatemala.

1. Adult — P. Honduras. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — Pres. Central America. Mrs. J. A. Tomhagen.

a. *Marmosa murina mexicana* Merriam.

Marmosa murina mexicana Merr., Proc. Biol. Soc. Wash., xi, 1897, p. 44. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M.

Pub., IV, Pt. 1, 1904, p. 6. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 2. Zoöl. Ser.

MEXICAN MURINE OPOSSUM.

1-2. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

4. **Marmosa cinerea** (Temminck).

Didelphys cinerea Temm., Mon. Mamm., 1, 1827, p. 46.

Micoureus cinereus Less., Nouv. Tabl. Règn. Anim., 1842, p. 186.

Didelphys noctivaga Tschudi, Faun. Peruana, 1844, p. 148, pl. VIII.

Gymnomys scapulatus Burm., Erläut. Faun. Bras., 1856, p. 79, pl. XII.

Didelphys waterhousii Tomes, Proc. Zoöl. Soc., 1860, pp. 58, 217, 307, fig. & pl. LXXVI.

Marmosa cinerea Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 7, fig. 11. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 3. Zoöl. Ser.

ASHY OPOSSUM.

1. Adult — P. Venezuela. Deyrolle Fils.

5. **Marmosa marica** Thomas.

Marmosa marica Thos., Ann. Mag. Nat. Hist., 7th Ser., 1, 1898, p. 455.

MARICA OPOSSUM.

1. Adult — P. Venezuela. Deyrolle Fils.

6. **Marmosa pusilla** (Desmarest).

Didelphys pusilla Desm., Nouv. Dict. Hist. Nat., XXIV, 1804, p. 19.

Didelphys nana Illig., Abh. Akad. Berl., 1815, p. 107.

Didelphys elegans Lund, Blik Bras. Dyrev., K. Dansk. Vidensk. Afhandl., IX, 1842, p. 135. (nec Waterhouse.)

Gymnomys agilis Burm., Erläut. Faun. Bras., 1856, p. 82, pl. xv, fig. 1; pl. IX, fig. 6.

PIGMY OPOSSUM.

1. Adult — P. Venezuela. Deyrolle Fils.

7. **Marmosa chapmani** Allen.

Didelphis! (Micoureus) murina Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 230. (nec Linnæus.)

Marmosa chapmani Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1900 p. 197.

CHAPMAN'S OPOSSUM.

1. Adult ♀ Paratype. Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
- 2-3. Adult ♂ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Genus 4. **Caluromys**.

Caluromys Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1900, p. 189.
Type *Didelphis! philander* Linnæus.

- a. *Caluromys laniger pallidus* (Thomas).
Philander laniger pallidus Thos., Ann. Mag. Nat. Hist., 7th Ser.,
IV, 1899, p. 286.



FIG. 1. CALUROMYS DERBIANUS. EARL OF DERBY'S OPOSSUM.

Caluromys laniger pallidus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1900, p. 189. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 10. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 4. Zool. Ser.

PALE WOOLLY OPOSSUM.

1. Adult — P. Honduras. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 5. **Metachirus**.

Metachirus Burm., Syst. Uebers. Thier. Bras., I, 1854, p. 135. Type *Didelphys nudicaudata* E. Geoffroy.

a. *Metachirus fuscogriseus pallidus* Allen.

Metachirus fuscogriseus pallidus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 215. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 13. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 5. Zool. Ser.

ORIZABA OPOSSUM.

- 1-6. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
7-8. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

8. *Metachirus opossum* (Linnæus).

Didelphis! opossum Linn., Syst. Nat., I, 1758, p. 55.

Didelphis! quica Temm., Mon. Mamm., I, 1827, p. 36.

QUICA OPOSSUM.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 6. **Didelphys.**

Didelphis (sic) Linnæus, Syst. Nat., I, 1758, p. 54. Type *Didelphis! marsupialis* Linnæus.

Philander Brisson, Regn. Anim., 1762, pp. 13, 207.

Subgenus A. *Philander*.

9. *Didelphys trinitatis* Thomas.

Didelphys trinitatis Thos., Ann. Mag. Nat. Hist., 6th Ser., XIII, 1894, p. 438.

PHILANDER OPOSSUM.

- 1-2. Adult ♂ Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Subgenus B. *Didelphys*.

10. *Didelphys marsupialis* Linnæus.

Didelphis! marsupialis Linn., Syst. Nat., I, 1758, p. 54. Thos., Am. Nat., XXXV, 1901, p. 144.

Didelphis! karkinophaga! Zimm., Geogr. Gesch., II, 1780, p. 226.

Didelphis! carcinophaga Bodd., Elench. Anim., I, 1785, p. 77.

Didelphis! cancrivora Gmel., Syst. Nat., I, 1788, p. 108.

LINNÆUS'S OPOSSUM.

1. Adult ♂ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
2. Adult — P. Venezuela. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Didelphys marsupialis etensis* Allen.

Didelphis! karkinophaga caucæ Bangs, Amer. Nat., xxxv, 1901, p. 633. (nec Allen.)

Didelphis! marsupialis etensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 262.

Didelphys marsupialis etensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 18. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 8. Zoöl. Ser.

ETEN OPOSSUM.

- 1-3. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 4-6. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 7-8. Juv. ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 9-10. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

11. *Didelphys mesamericana* Oken.

Didelphis! mesamericana Oken, Lehrb. der Zool., II, 1816, p. 1152.

Didelphis! californica Bennett, Proc. Zoöl. Soc., 1833, p. 40.

Didelphys californica Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 3.

Didelphys mesamericana Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 15, fig. v, pl. II. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 6. Zoöl. Ser.

MEXICAN OPOSSUM.

- 1-6. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 7-10. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
11. Adult ♂ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
- 12-13. Adult ♀ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
14. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.
- 15-16. Adult — Coll. ———? State of Jalisco, Mexico. F. E. Lutz.

- 17-22. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
23. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 24-25. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber
26. Adult ♂ Coll. Geronimo, State of Oaxaca, Mexico. Heller & Barber.
27. Adult ♀ P. Mazatlan, State of Jalisco, Mexico. A. Forrer.
28. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
29. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

a. *Didelphys mesamericana tabascensis* (Allen).

Didelphis! marsupialis tabascensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 173.

Didelphys mesamericana tabascensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 16. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 6. Zoöl. Ser.

TABASCO OPOSSUM.

- 1-3. Adult ♂ Black phase. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 4-5. Adult ♀ Gray phase. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
6. Adult ♂ Gray phase. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
7. Adult ♂ Black phase. Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.

12. *Didelphys virginiana* Kerr.

Didelphis! virginiana Kerr, Anim. Kingd., 1792, p. 193. Shaw, Gen. Zoöl. I, Pt. 2, 1800, p. 473.

Didelphis! virginiana pigra Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 172.

Didelphys virginiana Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 1, fig. 1. Zoöl. Ser. Id. Pub. Field Columb. Mus., III, 1901, p. 32. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 7. Zoöl. Ser.

Didelphys virginiana pigra Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 1. Zoöl. Ser.

VIRGINIA OPOSSUM.

- 1-8. Adult & juv. — P. Illinois. Ward's Nat. Scien. Establ., Rochester, N. Y.

9. Adult — Albino: P. Little Beaver Creek, Wake County, N. Carolina. R. L. Bagley.
10. Adult ♂ Coll. White Sulphur Springs, W. Virginia. T. Surber.
11. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 12-13. Adult ♀ Coll. Enterprise, Florida. T. Surber.
14. Adult ♂ Coll. Gainesville, Florida. T. Surber.
15. Adult ♀ Coll. New Berlin, Florida. T. Surber.
16. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.

Family II. **Dasyuridæ. Thylacine and Dasyures.**

Genus 7. **Sarcophilus.**

Sarcophilus F. Cuv., Hist. Nat. Mamm., IV, livr. LXX, 1837, 6 pp. text & pl. Type *Didelphys ursina* Harris.

Diabolus Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 400.

13. **Sarcophilus ursinus** (Harris).

Didelphys ursina Harris, Trans. Linn. Soc., IX, 1808, p. 176, pl. XIX, fig. 2. (nec Shaw.)

Dasyurus ursinus Geoff., Ann. Mus. Hist. Nat. Paris, XV, 1805, p. 305.

Sarcophilus ursinus F. Cuv., Hist. Nat. Mamm., IV, 1837, pl. LXX.

Diabolus ursinus Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 400.

TASMANIAN DEVIL.

1. Adult — P. Van Dieman's Land. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 8. **Dasyurus.**

Dasyurus E. Geoff., Mag. Encyclop., III, 1796, p. 469. *Id.* Bull. Soc. Philom., I, 1796, p. 106. Type *Didelphis ! viverrinus* Shaw.

14. **Dasyurus maculatus** (Kerr).

Viverra maculata Kerr, Anim. Kingd., 1792, p. 170.

Mustela novæ-hollandiæ Meyer, Syst. Uebers. Zool. Entd. Neu-Holl., 1793, p. 27.

Dasyurus macrourus Geoff., Ann. Mus. Hist. Nat. Paris, III, 1804, p. 358.

Dasyurus maculatus Fisch., Zoogn., II, 1813, p. 584.

Dasyurus ursinus Gieb., Bronn's Kl. u. Ordn., VI, Abth. v, 1874, pl. XVIII, figs. 4, 5. (nec Harris.)

SPOTTED-TAILED DASYURE.

1. Adult — P. Tasmania. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family III. **Peramelidæ. Bandicoots.**

Genus 9. **Thylacomys.**

Thalacomys (misprint) Owen, Blyth's Cuv. Anim. Kingd., 1840, p. 104. Type *Perameles lagotis* Reid.

Macrotis Reid, Proc. Zool. Soc., 1836, p. 131. (nec Dejean, 1833, Coleopt.)

Paragalia (sic) Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 401.

15. **Thylacomys lagotis** (Reid).

Perameles lagotis Reid, Proc. Zool. Soc., 1836, p. 129.

RABBIT BANDICOOT.

1. Adult — P. West Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family IV. **Phascolomyidæ. Wombats.**

Genus 10. **Phascolomys.**

Phascolomis! E. Geoff., Ann. Mus. Hist. Nat. Paris, II, 1803, p. 364.

Type *Didelphis! ursina* Shaw.

Vombatus E. Geoff., Bull. Soc. Philom. Paris, III, 1803, p. 185.

Amblotis Illig., Prodr. Syst. Mamm. et Av., 1811, p. 77.

Lasiiorhinus Gray, Ann. Mag. Nat. Hist., 3rd Ser., XI, 1863, p. 458.

16. **Phascolomys ursinus** (Shaw).

Didelphis! ursina Shaw, Gen. Zool., I, Pt. 2, 1800, p. 504.

Wombatus fossor Desm., Nouv. Dict. d'Hist. Nat., xxiv, 1803, p. 20.

Amblothis fossor Illig., Prodr. Syst. Mamm. et Av., 1811, p. 77.

Phascolomys fusca Illig., Prodr. Syst. Mamm. et Av., 1811, p. 78.

Phascolomys wombatus Leach, Zool. Misc., II, 1815, p. 102, pl. xcvi.

Phascolomys ursinus G. Cuv., Règn. Anim., I, 1817, p. 185.

Phascolomys bassii Less., Man. Mamm., 1827, p. 229.

TASMANIAN WOMBAT.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establish., Rochester, N. Y.

Family V. **Phalangeridæ. Phalangers.**

Subfamily I. **Phalangerinæ.**

Genus II. **Phalanger.**

Phalanger Storr, Prodr. Meth. Mamm., 1780, p. 33. Type *Didelphis! orientalis* Pallas.

Phalangista G. Cuv. & E. Geoff., Mag. Encyclop., II, 1795, pp. 183, 187.

Cæscoes Lacép., Tabl. Mamm., 1799, p. 5.

Balantia Illig., Prodr. Syst. Mamm. et Av., 1811, p. 77.

Sipalus Fisch., Zoogn., II, 1813, p. 581.

Cuscus Less., Voy. 'Coquille,' Zool., I, 1826, p. 150.

Ceonyx Temm., Mon. Mamm., I, 1827, p. 10.

Ailurops Wagl., Nat. Syst. Amph., Säugth., 1830, p. 26.

Eucuscus Gray, Proc. Zool. Soc., 1861, p. 316.

Spilocuscus Gray, Proc. Zool. Soc., 1861, p. 316.

Strigocuscus Gray, Proc. Zool. Soc., 1861, p. 319.

17. **Phalanger orientalis** (Pallas).

Didelphis! orientalis Pall., Misc. Zool., 1766, p. 59.

Didelphis! indica Müll., Linn. Naturs., Suppl., VII, 1776, p. 35.

Phalanger orientalis Storr, Prodr. Meth. Mamm., 1780, p. 33.

Didelphis! molucca Gmel., Syst. Nat., I, 1788, p. 106.

Cæscoes amboinensis Lacép., Mém. Instit., III, 1801, p. 491.

Phalangista alba E. Geoff., Cat. Mus. Paris, 1803, p. 148.

Phalangista rufa E. Geoff., Cat. Mus. Paris, 1803, p. 149.

Phalangista minor and *fusca* Schinz, Cuv. Thierr., I, 1821, p. 258.

Phalangista cavifrons Temm., Mon. Mamm., I, 1827, p. 17, pl. I, figs. 7-9; pl. II, figs. 7-10.

Phalangista gymnotis Peters & Doria, Ann. Mus. Genov., VII, 1875, p. 543.

Cuscus vestitus Milne-Edw., Comptes Rendus Acad. Sci. Paris, 1877, p. 1080.

GRAY CUSCUS.

I. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 12. *Trichosurus*.

Trichosurus Less., Dict. Class. Hist. Nat., XIII, 1828, p. 333. Type *Didelphis! vulpecula* Kerr.

Psilogrammurus Glog., Hand-u. Hilfsb. Naturg., 1841, p. 85.

Trichurus Wagn., Schreb. Säugth., Suppl., III, 1843, p. 74.

18. *Trichosurus vulpecula* (Kerr).

Didelphis! vulpecula Kerr, Anim. Kingd., 1792, p. 198.

Didelphis! vulpina Meyer, Syst. Uebers. Zool. Entd. Neu-Holl., 1793, p. 23.

Didelphis! tapouaru Meyer, Syst. Uebers. Zool. Entd. Neu-Holl., 1793, p. 24.

Didelphis! lemurina Shaw, Gen. Zoöl., I, Pt. II, 1800, p. 487, pl. cx.

Ursus novæ hollandiæ Bechst., in Penn. Allgem. Uebers. vierf.

Thiere, II, 1800, pp. 337, 683.

Phalangista lemurina G. Cuv., Règn. Anim., I, 1817, p. 179.

Phalangista vulpina Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 475.

Phalangista cooki F. Cuv., Hist. Nat. Mamm., III, livr. XLV, 1824.

Phalangista bougainvillei Fisch., Syn. Mamm., 1829, p. 583.

Balantia vulpina Wagl., Nat. Syst. Amph., Säugth., 1830, p. 25.

Phalangista xanthopus Ogilby, Proc. Zoöl. Soc., 1831, p. 135.

Phalangista cuvieri Gray, Grey's Journ. Two Exped. North-western and West. Austr., II, 1841, Append., p. 401.

Trichosurus xanthopus Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 189.

Phalangista melanura Wagn., Schreb. Säugth., Suppl., III, 1843, p. 81.

Phalangista hypoleucus Wagn., Schreb. Säugth., Suppl., v, 1855, p. 273, pl. XXII.

COMMON PHALANGER.

1. Adult — P. Victoria, Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Trichosurus vulpecula fuliginosus* (Ogilby).

Phalangista fuliginosa Ogilby, Proc. Zool. Soc., 1831, p. 135.

Phalangista felina Wagn., Schreb. Säugth., Suppl., III, 1843, p. 76.

TASMANIAN PHALANGER.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

19. *Trichosurus caninus* (Ogilby).

Phalangista canina Ogilby, Proc. Zool. Soc., 1835, p. 191.

SHORT-EARED PHALANGER.

1. Adult — P. Victoria? Australia? Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 13. **Petauroides.**

Petauroides Thos., Cat. Marsup. & Monotr. Brit. Mus., 1888, p. 163.

Type *Didelphis! volans* Kerr.

Voluccella Bechst., in Penn. Allgem. Uebers. vierf. Thiere, II, 1800, p. 351. (nec Geoff., 1764; nec Fabr., 1794, Diptera.)

Petaurista Desm., Mamm., I, 1820, p. 268. (nec Link, 1795; nec Fisch., 1814.)

20. **Petauroides volans** (Kerr).

Didelphis! volans Kerr, Anim. Kingd., 1792, p. 199.

Didelphis! macroura Shaw, Zool. New Holland, I, 1794, p. 33, pl. XII.

Phalangista petaurista E. Geoff., Cat. Mus. Paris, 1803, p. 150.

Petaurus macrurus Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 402.

Petaurus peronii Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 404.

Petaurus taguanoides Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 400.

Petaurus didelphoides F. Cuv., Dents Mamm., 1825, pp. 129, 253.

Petaurus leucogaster Mitch., Exped. East Austr., I, 1838, p. xvii.

Petaurus volans Thos., Ann. Mag. Nat. Hist., 5th Ser., IV, 1879, p. 397.

TAGUAN FLYING PHALANGER.

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 14. **Dactylopsila.**

Dactylopsila Gray, Proc. Zool. Soc., 1858, p. 109. Type *Dactylopsila trivirgata* Gray.

21. **Dactylopsila trivirgata** Gray.

Dactylopsila trivirgata Gray, Proc. Zool. Soc., 1858, p. 111, pl. LXIII.

Phalangista trivirgata Schleg., Dierent., 1872, p. 166.

Dactylopsila albertisi Peters & Doria, Ann. Mus. Genov., VII, 1875, p. 542.

Phalangista (Dactylopsila) angustivittis Peters & Doria, Ann. Mus. Genov., XVI, 1881, p. 674.

STRIPED PHALANGER.

1. Adult — P. Mount Gayata, Richardson Range, Australia. E. Gerrard & Sons.

Genus 15. **Petaurus.**

Petaurus Shaw, Nat. Misc., II, 1791, pl. LX, text. Type *Petaurus australis* Shaw.

Ptilotus Fisch., Zoogn., III, 1814, p. 512.

Belideus Waterh., Proc. Zool. Soc., 1839, p. 151.

Xenochirus Glog., Hand- u. Hilsfb. Naturg., I, 1841, p. 85.

22. * **Petaurus sciureus** (Shaw).

Didelphis! sciurea Shaw, Zool. New Holl., I, 1794, p. 29, pl. XI.

Voluccella sciurea Bechst., in Penn. Allegm. Uebers. vierf. Thiere, II, 1800, pp. 352, 686.

Petaurus sciureus Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 403.

Petaurista sciurea Desm., Mamm., I, 1820, p. 270.

Phalangista sciurea Schinz, Cuv. Thierr., I, 1821, p. 260.

Belideus sciureus Less., Nouv. Tab. Règn. Anim., Mamm., 1842, p. 189.

Belideus gracilis De Vis, Proc. Linn. Soc. N. S. Wales, VII, 1882, p. 619.

SQUIRREL FLYING PHALANGER.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

* As it is impossible to determine whether Phillips's description of the "Norfolk Island Flying Squirrel," Voy. Bot. Bay, 1789, p. 151, pl. XVII, refers to the *P. sciureus* or *P. breviceps*, the only difference between them being the size of the molars, it is best to drop Kerr's name, *Sciurus (Petaurus) norfolkensis* as undeterminable in favor of the one bestowed by Shaw, l. c.

Genus 16. **Acrobates.**

Acrobates Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 405. Type

Didelphis! pygmæa Shaw.

Cercoptenus Glog., Hand- u. Hilfsb. Naturg., 1841, p. 85.

23. **Acrobates pygmæus** (Shaw).

Didelphis! pygmæa Shaw, Zoöl. New Holl., 1, 1794, p. 5, pl. II.

Voluccella pygmæa Bechst., in Penn. Allgem. Uebers. vierf. Thiere,
II, 1800, pp. 352, 686.

Phalangista pygmæa E. Geoff., Cat. Mus. Paris, 1803, p. 151.

Acrobates pygmæus Desm., Nouv. Dict. Hist. Nat., xxv, 1817,
p. 405.

Petaurista pygmæa Gray, Griff. Anim. Kingd., v, 1827, p. 200.

Petaurus pygmæus Less., Dict. Class. Hist. Nat., XIII, 1828, p. 289.

Dromicia frontalis De Vis, Proc. Linn. Soc. N. S. Wales, 1, 1887,
p. 1134.

PIGMY FLYING PHALANGER.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ.,
Rochester, N. Y.

Subfamily II. **Phascolarctinæ.**Genus 17. **Phascolarctus.**

Phascolarctus Blainv., Bull. Soc. Philom. Paris, 1816, p. 116.

Type (*Lipurus cinereus* Goldfuss auct., 1819!)

Lipurus Goldf., Schreb. Säugth., 1817, pls. clv, Aa, Ab. (nec
Illig., 1811.)

Morodactylus Goldf., Handb. Zool., II, 1820, p. 445.

24. **Phascolarctus cinereus** (Goldfuss).

Lipurus cinereus Goldf., Isis, 1819, p. 274.

Morodactylus cinereus Goldf., Zool. II, 1820, p. 445.

Phascolarctus fuscus Desm., Mamm., 1, 1820, p. 276.

Phascolarctus koala Gray, Griff. Anim. Kingd., 1827, p. 205.

Phascolarctus flindersi Less., Man. Mamm., 1827, p. 221.

Phascolarctus cinereus Fisch., Syn. Mamm., 1829, p. 285.

KOALA.

1. Adult — P. Victoria, Australia. Ward's Nat. Scien. Establ.,
Rochester, N. Y.

Family VI. **Macropodidæ. Kangaroos.**Subfamily I. **Potoroinæ.**Genus 18. **Potorous.**

Potorous Desm., Nouv. Dict. Hist. Nat., xxiv, 1804, p. 20. Type

Didelphis! tridactyla Kerr.

Hypsiprymnus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 79.

25. Potorous tridactylus (Kerr).

Didelphis! tridactyla Kerr, Anim. Kingd., 1792, p. 198.

Didelphis! potoru Meyer, Syst. Uebers. Zool. Entd. Neu-Holl., 1793, p. 13.

Didelphis! murina Cuv., Tabl. Élé., 1798, p. 126. (nec Linn.)

Yerboa potoru Bechst., in Penn. Allgem. Uebers. vierf. Thiere, II, 1800, pp. 356, 686.

Macropus minor Shaw, Gen. Zoöl., I, Pt. 2, 1800, p. 513, pl. cxvi.

Kangurus murinus Tiedem., Zool., 1808, p. 435.

Hypsiprymnus potoru Illig., Prods. Syst. Mamm. et Av., 1811, p. 79.

Hypsiprymnus peronii Quoy & Gaim., Voy. 'Uranie,' Zool., 1824, p. 64.

Hypsiprymnus setosus Ogilby, Proc. Zoöl. Soc., 1831, p. 149.

Hypsiprymnus myosurus Ogilby, Proc. Zoöl. Soc., 1838, p. 62.

Perameles tuckeri Gray, Ann. Nat. Hist., v, 1840, p. 150.

Hypsiprymnus apicalis Gould, Mamm. Austr., 1851, pl. LXVIII.

Potorous rufus Higg. & Pett., Proc. Roy. Soc. Tasman., 1883, pp. 181, 196.

COMMON RAT KANGAROO.

1. Adult — P. South Australia. E. Gerrard & Sons.

2. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 19. **Bettongia.**

Bettongia Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 584. Type

Hypsiprymnus cuniculus Ogilby.

26. Bettongia lesueuri (Quoy & Gaimard).

Hypsiprymnus lesueuri Quoy & Gaim., Voy. 'Uranie,' Zool., 1824, p. 64.

Hypsiprymnus grayi Gould, Proc. Zoöl. Soc., 1840, p. 178.

Bettongia grayi Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 403.

Perameles harveyi Waterh., Proc. Zool. Soc., 1842, p. 47.

LESUEUR'S RAT KANGAROO.

1. Adult — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 20. **Æpyprymnus.**

Æpyprymnus Garrod, Proc. Zool. Soc., 1875, p. 59. Type *Bettongia rufescens* Gray.

27. **Æpyprymnus rufescens** (Gray).

Bettongia rufescens Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 584.

Hypsiprymnus melanotis Ogilby, Proc. Zool. Soc., 1838, p. 62.

Hypsiprymnus rufescens Waterh., Jard. Nat. Libr., Mamm., XI, 1841, p. 188.

Macropus rufescens Schleg., Dierk., 1857, p. 687.

Æpyprymnus rufescens Garrod, Proc. Zool. Soc., 1875, p. 59.

RUFIOUS RAT KANGAROO.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Macropodinæ.**

Genus 21. **Dorcopsis.**

Dorcopsis Schleg. & Müll., Verh. Nat. Ges. Ned., 1839-44, p. 130. Type *Macropus mulleri* Schlegel.

28. **Dorcopsis luctuosa** (D'Albertis).

Halmaturus luctuosus D'Albertis, Proc. Zool. Soc., 1874, p. 110.

Dorcopsis luctuosa Garrod, Proc. Zool. Soc., 1875, p. 49, pls. VII, VIII, IX.

Dorcopsis chalmersi Mikl.-Macl., Proc. Linn. Soc. N. S. Wales, IX, 1884, p. 569, pl. XIX.

Dorcopsis beccarii Mikl.-Macl., Proc. Linn. Soc. N. S. Wales, X, 1885, p. 146, pl. XX, figs. 1-4.

GRAY DORCOPSIS.

1. Adult — P. S. E. New Guinea. E. Gerrard & Sons.

Genus 22. **Onychogale.**

Onychogalea (sic) Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 402. Type *Macropus unguifer* Gould.

29. **Onychogale frenata** (Gould).

Macropus frenatus Gould, Proc. Zool. Soc., 1840, p. 92.

Macropus (Onychogalea) frænatus Gray, Grey's Journ. Two Exped. North-west & West. Austr., II, 1841, Append., p. 402.

Onychogalea! frænata Gray, List Spec. Mamm. Brit. Mus., 1843, p. 88.

Halmaturus frænatus Schinz, Syn. Mamm., I, 1844, p. 548.

BRIDLED WALLABY.

1. Adult — P. South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 23. **Macropus.**

Macropus Shaw, Nat. Misc., I, 1790, text, pl. xxxiii. Type *Macropus giganteus* Shaw = *Yerboa gigantea* Zimmermann.

Kangurus G. Cuv. & E. Geoff., Mag. Encyclop., II, 1795, pp. 180, 188.

Halmaturus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 80.

Thylogale Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 583.

Osphranter! Gould, Proc. Zool. Soc., 1842, p. 80.

Setonix Less., Nouv. Tabl. Rég. Anim., Mamm., 1842, p. 194.

Gerboidea I. Geoff., Gerv. Hist. Nat. Mamm., II, 1855, p. 271.

Phascolagus Owen, Proc. Roy. Soc. Lond., XXI, 1873, p. 128.

Boriogale Owen, Phil. Trans. Roy. Soc. Lond., CLXIV, 1874, p. 247, pl. xx, figs. 12, 12a, 19; pl. XXI, fig. 5.

30. **Macropus thetidis** (Lesson).

Halmaturus thetis! Less., Man. Mamm., 1827, p. 229.

Halmaturus thetidis F. Cuv., Hist. Nat. Mamm., livr. LVI, 1829, pl.

Macropus thetis! Fisch., Syn. Mamm., 1829, p. 284.

Halmaturus eugenii Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 583. (nec Desm.)

Halmaturus nuchalis Wagn., Schreb. Säugth., Suppl., III, 1843, p. 128.

Macropus thetidis Waterh., Nat. Hist. Mamm., I, 1846, p. 144, pl. III, fig. 2. Gieb., Odontogr., 1855, p. 43, pl. XIX, figs. 11A & B.

PADEMELON WALLABY.

1. Adult — P. Victoria, S. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

31. *Macropus ualabatus* (Lesson & Garnot).

- Kangurus bruni* Desm., Nouv. Dict. Hist. Nat., xvii, 1817, p. 42. (nec Schreb.)
Kangurus ualabatus Less. & Garni., Voy. 'Coquille', Zool., I, 1826, p. 161, pl. vii.
Macropus ualabatus Less., Man. Mamm., 1827, p. 227.
Halmaturus lessoni Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 583.
Halmaturus ualabatus Gray, Grey's Journ. Two Exped. Northwest & West. Austr., II, 1841, Append., p. 402.
Halmaturus nemoralis Wagn., Schreb. Säugth., Suppl., III, 1843, p. 114.

BLACK-TAILED WALLABY.

1. Adult — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

32. *Macropus rufus* (Desmarest).

- Kangurus rufus* Desm., Mamm., Suppl., II, 1822, p. 541.
Kangurus laniger Gaim., Bull. Soc. Philom., 1823, p. 138.
Kangurus griseo-lanosus Quoy & Gaim., Ann. Scien. Nat., v, 1825, p. 482.
Macropus lanigerus Gray, Griff. Anim. Kingd., III, 1827, p. 49, pl.
Macropus laniger Less., Man. Mamm., 1827, p. 226.
Macropus rufus Benn., Cat. Nat. Hist. Austr. Mus., 1837, p. 6.
Halmaturus laniger Wagn., Schreb. Säugth., Suppl., III, 1843, p. 110.
Osphranter lanigerus Gould, Strzelecki's N. S. Wales, 1845, p. 316.
Osphranter rufus Gould, Mamm. Austr., II, 1853, pls. VI, VII.
Macropus pictus Gould, Proc. Zool. Soc., 1860, p. 373.
Macropus ruber Crisp, Proc. Zool. Soc., 1862, p. 135.

RED KANGAROO.

1. Adult — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

33. *Macropus giganteus* (Zimmermann).

- Yerboa gigantea* Zimm., Spec. Zool. Geogr., 1777, p. 526.
Jaculus giganteus Erxl., Syst. Regn. Anim., 1777, p. 409.
Didelphys gigantea Schreb., Säugth., III, 1778, p. 552, pl. CLIV.
Didelphis kenguru Zimm., Geogr. Gesch., II, 1780, p. 231.

Macropus giganteus Shaw, Nat. Misc., 1, 1790, pl. xxxiii.

Macropus major Shaw, Gen. Zool., 1, Pt. II, 1800, p. 505, pl. cxv.

Kangurus giganteus E. Geoff., Cat. Mus. Paris, 1803, p. 154.

Halmaturus giganteus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 80.

Kangurus labiatus Desm., Nouv. Dict. Hist. Nat., xvii, 1817, p. 33.

Halmaturus griseofuscus Goldfuss, Isis, 1819, p. 266.

Halmaturus labiatus Goldfuss, Isis, 1819, p. 266

Halmaturus griseorufus Goldfuss, Isis, 1819, p. 267.

Macropus ocydromus Gould, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 1.

GREAT GRAY KANGAROO.

1. Adult ♂ P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Juv. — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

SUBCLASS III. EUTHERIA.

Order III. **Edentata. Edentates.**

Family I. **Bradypodidae. Sloths.**

Genus 24. **Choloepus.**

Choloepus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 108. Type
Bradypus didactylus Linnæus.

34. **Choloepus hoffmanni** Peters.

Choloepus hoffmanni Peters, Monatsb. K. Preuss. Ak. Wiss. Berl.,
1858, p. 128. Elliot, Mamm. Middle Amer. & W. Indies, F.
C. M. Pub., IV, Pt. 1, 1904, p. 20, figs. 4, vi. Zool. Ser. *Id.*
Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,
vi, 1905, p. 9. Zool. Ser.



FIG. II. *CHOLOEPUS HOFFMANNI*. HOFFMANN'S SLOTH.

HOFFMANN'S SLOTH. *Perico Lijero* in Costa Rica.

- 1-4. Adult — P. Panama, Central America. Ward's Nat. Scien. Establ., Rochester, N. Y.
 5-6. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
 7-10. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
 11. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Genus 25. *Bradypus*.

Bradypus Linn., Syst. Nat., 1, 1758, p. 34. Type *Bradypus tridactylus* Linnæus.

Acheus F. Cuv., Dents Mamm., 1825, pp. 194, 256, pl. LXXVIII.

* *Arctopithecus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. xxviii. (nomen nudum.) *Id.* Proc. Zool. Soc., 1849, pp. 65, 70-73, pl. xi.

Scaopus Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, p. 678.

35. *Bradypus tridactylus* Linnæus.

Bradypus tridactylus Linn., Syst. Nat., 1, 1758, p. 34.

Bradypus crinitus Gray, Proc. Zool. Soc., 1849, p. 67.

THREE-TOED SLOTH.

- 1-2. Adult — P. Rio de Janeiro, Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family II. *Myrmecophagidæ*. Anteaters.

Genus 26. *Cyclopes*.

Cyclopes Gray, Lond. Med. Repos., xv, 1821, p. 305. Type *Myrmecophaga didactyla* Linnæus.

Didactyles F. Cuv., Dict. Scien. Nat., LIX, 1829, p. 501.

Myrmydon Wagl., Nat. Syst. Amph., 1830, p. 36.

Dionyx I. Geoff., Rés. Leçons Mamm. Mus. Paris, 1835, p. 54.

Myrmecolichnus Reich., K. Säch. Naturh. Mus. Dresd., Ein Leitfaden, 1836, p. 51.

Eurypterna Glog., Hand- u. Hilfsb. Naturg., 1, 1841, pp. xxxi,

112.

*By some oversight quite inexplicable, there was cited in the Check-List, p. 9, after this name: Verrey, Nouv. Dict. Hist. Nat., XXI, 1819, p. 279, which was applied to a species of Monkey and has nothing in common with Gray's name.

Cyclothurus (sic) Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 152.

Didactyla Liais, Climats, Géol., Faun. et Geog., Botan. Brésil, 1872, p. 356.

36. *Cyclopes dorsalis* (Gray).

Cyclothurus dorsalis Gray, Proc. Zool. Soc., 1865, p. 385, pl. 19.

Cyclopes dorsalis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 25, figs. 6, VIII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 10. Zool. Ser.

LITTLE OR TWO-TOED ANTEATER.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 27. *Tamandua*.

Tamandua Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 5, Tab.

Gen., 1775. Type *Myrmecophaga tetradactyla* Linnæus.

Tamanduas F. Cuv., Dict. Scien. Nat., LIX, 1829, p. 501.

Uroleptes Wagl., Nat. Syst. Amphib., 1830, p. 36.

37. *Tamandua tetradactyla* (Linnæus).

Myrmecophaga tetradactyla Linn., Syst. Nat., I, 1758, p. 35.

Myrmecophaga myosura Pall., Miscell. Zool., 1766, p. 64.

Ursine Anteater Griff., Anim. Kingd., III, 1827, p. 304, pl.

Myrmecophaga crispus Rüpp., Mus. Senck., III, 1845, p. 179.

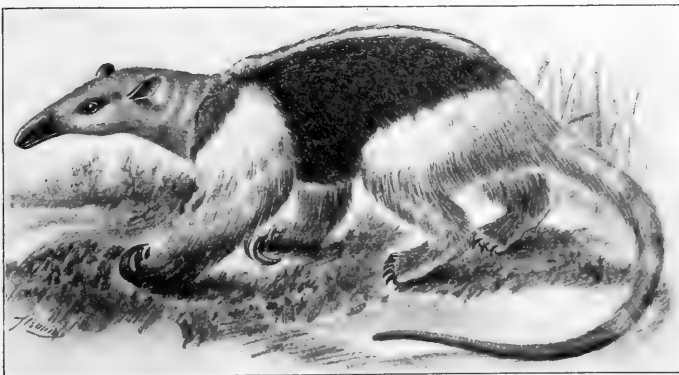


FIG. III. TAMANDUA TETRADACTYLA.
THREE-TOED ANTEATER.

Tamandua bivittata Gray, Proc. Zool. Soc., 1865, p. 384.

Myrmecophaga quadridactyla True, Proc. U. S. Nat. Mus., 1885, p. 588.

Tamandua tetradactyla Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 27, figs. 7, ix, x. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 10. Zool. Ser.

THREE-TOED ANTEATER.

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Juv. — P. Brazil, South America. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult — P. Bonda, Colombia, South America. H. H. Smith.
4. Juv. — P. Bonda, Colombia, South America. H. H. Smith.
5. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
6. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

38. *Tamandua longicauda* (Wagner).

Myrmecophaga longicauda Wagn., Schreb. Säugth., Suppl., iv, 1844, p. 210.

Tamandua longicaudata Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 392.

LONG-TAILED ANTEATER.

1. Adult — P. Trinidad ? Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 28. *Myrmecophaga*.

Myrmecophaga Linn., Syst. Nat., i, 1758, p. 35. Type *Myrmecophaga tridactyla* Linnæus.

39. *Myrmecophaga tridactyla* Linnæus.

Myrmecophaga tridactyla Linn., Syst. Nat., i, 1758, p. 35. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 29, figs. 8, xi. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 12. Zool. Ser.

GREAT ANTEATER. *Oso Real* in Costa Rica.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family III. **Dasypodidæ. Armadillos.**Subfamily I. **Chlamydephorinæ.**Genus 29. **Chlamydephorus.**

Chlamydephorus (sic) Harlan, Ann. N. Y. Lyc. Nat. Hist., 1, Pt. 2, 1825, p. 235, pls. XIX-XXI. Type *Chlamydephorus! truncatus* Harlan.

Burmeisteria Gray, Proc. Zool. Soc., 1865, p. 381.

40. Chlamydephorus truncatus Harlan.

Chlamydephorus! truncatus Harlan, Ann. N. Y. Lyc. Nat. Hist., 1, 1825, pl. 4.

THE PICHICHUAGO.

1. Adult — P. Mendoza, Argentine Republic. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 30. **Zaedyus.**

Zaedyus Ameghino, Contr. al Conoc. Mamif. Fos. Rep. Argent., 1889, p. 867. Type *Dasypus minutus* Desmaret.

Dasypus Linn., Syst. Nat., 1, 1758, p. 50. (Part.)

Tatusie F. Cuv., Hist. Nat. Mamm., 1822, text pl. 293.

Tatusia F. Cuv., in Less. Man. Mamm., 1827, p. 309. (Part.)

Euphractus Wagl., Nat. Syst. Amphib., 1830, p. 36. (Part.)

Cryptophractus Fitzin., Tagebl. 32, Versamml. Deutsch. Naturf. & Aertze, Wien, 1856, p. 123. (Part.)

Dasyphractus Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXIV, Abth. 1, 1871, p. 264. (Part.)

Chætophractus Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXIV, Abth. 1, 1871, p. 268. (Part.)

Subgenus A. **Zaedyus.****41. Zaedyus ciliatus** (Fischer).

Dasypus ciliatus Fisch., Zoogn., III, 1814, p. 127.

Dasypus patagonicus Desm., Nouv. Dict. Hist. Nat., XXXII, 1819, p. 491.

Dasypus minutus Desm., Man. Mamm., 1822, p. 371.

Tatusia minuta Less., Man. Mamm., 1827, pp. 312, 347.

Dasypus (Euphractus) minutus Burm., Reise durch die La Plata-Staaten, II, 1861, p. 427.

Euphractus minutus Gray, Cat. Carniv. Pachyderm. & Edent.
Mamm. Brit. Mus., 1869, p. 382.

THE PICHY.

1. Adult — P. Buenos Aires, Argentine Republic. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus B. *Chætophractus*.

42. *Zaëdyus villosus* (Desmarest).

Dasypus villosus Desm., Nouv. Dict. Hist. Nat., 1817, p. 489.

Euphractus villosus Gray, Proc. Zool. Soc., 1865, p. 376. *Id.*
Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869,
p. 382.

PELUDO.

1. Adult — P. Argentine Republic. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Tatuinæ.**

Genus 31. **Tatu.**

Tatu Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 5, Tab. Gen.,
1775. Type *Dasypus novemcinctus* Linnæus.

Tatusia F. Cuv., in Less. Man. Mamm., 1827, p. 309. (Part.)

Cachicamus McMurt., G. Cuv. Anim. Kingd., 1, 1831, p. 163.



FIG. IV. TATU NOVEMCINCTUM. NINE-BANDED ARMADILLO.

43. *Tatu novemcinctum* (Linnæus).

Dasypus novemcinctus Linn., Syst. Nat., 1, 1758, p. 51.

Dasypus octo-cinctus Schreb., Säugth., II, 1775, p. 222, Tab. LXXIII,

LXXVI.

Dasypus peba Desm., Mamm., 1820, p. 368. Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 377.

Dasypus longicaudus Max., Beitr. Naturg. Bras., II, 1825, p. 531.

Dasypus mexicanus fenestratus Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1864, p. 180.

Tatusia leptorhynchus Gray, Hand-L. Edent. Thick-skin. & Rumin. Mamm. Brit. Mus., 1873, p. 15, pl. 1, figs. 3, 4.

Cabassous novemcinctus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 4, pl. 1. Zoöl. Ser.

Tatu novemcinctum Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 33, figs. 9, XIII. Zoöl. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 13. Zoöl. Ser.

NINE-BANDED ARMADILLO.

1. Adult — P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Cameron County, Texas. C. K. Worthen.

3-4. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

5. Adult ♂ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

Family IV. **Manidae. Pangolins.**

Genus 32. **Manis.**

Manis Linn., Syst. Nat., I, 1758, p. 36. Type *Manis pentadactyla* Linnæus.

Pholidotus Briss., Regn. Anim., 1762, p. 18.

Phataginus Rafin., Analyse de la Nature, 1815, p. 57. (nomen nudum.) *Id.* Ann. Gén. Scien. Phys. Brux., VII, 1820, p. 214.

Phatages Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1843, pp. 258, 273. Gray, Proc. Zoöl. Soc., 1865, p. 368.

Phatagin Gray, Proc. Zoöl. Soc. Lond., 1865, p. 363, 2 figs. in text. *Id.* Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 368.

Smutsia Gray, Proc. Zoöl. Soc., 1865, p. 369.

Triglochinchopolis Fitzin., Sitzungsab., Math.-Nat. Cl. K. Akad. Wiss. Wien., LXV, 1872, Abth. 1, p. 27.

Pangolin Gray, Hand-L. Edent. Thick-skin. & Rumin. Mamm. Brit. Mus., 1873, p. 8.

44. *Manis tetradactyla* Linnæus.*Manis tetradactyla* Linn., Syst. Nat., 1, 1766, p. 53.*Manis macroura* Erxl.,

Syst. Regn. Anim.,

1777, p. 101.

Manis africani var.?

Desm., Mamm.,

1820, p. 376.

FIG. V. *MANIS TETRADACTYLA*. ATTADILLO.*Manis longicauda* Sundev., K.

Sven. Vet.-Akad. Handl.

Stockh., 1842, p. 251. Gray,

Proc. Zoöl. Soc., 1865, p. 363.

Id. Cat. Carniv. Pachyderm.

& Edent. Mamm. Brit. Mus., 1869, p. 367.

ATTADILLO, GAHLAH.

1. Adult — P. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

45. *Manis tricuspis* Rafinesque.*Manis tricuspis* Rafin., Ann. Gén. Scien. Phys. Brux., 1820, p. 214.*Manis 4-dactylus* Thomp., Proc. Zoöl. Soc., 1834, p. 28.*Manis multiscutata* Gray, Proc. Zoöl. Soc., 1843, p. 22. Fras.,

Zool. Typica, 1849, p. 15, pl. Gray, Proc. Zoöl. Soc., 1865,

p. 363. *Id.* Cat. Carniv. Pachyderm. & Edent. Mamm. Brit.

Mus., 1869, p. 368.

Manis tridentata Focillon, Rev. de Zool., 1850, p. 472, pl. 11.

PANGOLIN.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Order IV. **Sirenia. Sirenians.**

Family I. **Trichechidae.**

Genus 33. **Trichechus.**

Trichechus Linn., Syst. Nat., I, 1758, p. 34. Type *Trichechus manatus* Linnæus.

Manatus Brünn., Zool. Fund., 1772, pp. 34, 38, 39.

Halipaedisca Gistel, Naturg. Thierr. f. höhere Schul., 1848, p. 83.

46. Trichechus manatus Linnæus.

Trichechus manatus Linn., Syst. Nat., I, 1758, p. 34. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 37, fig. XIV, pls. IV, v. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 14. Zool. Ser.

Manatus latirostris Harl., Journ. Acad. Nat. Scien. Phil., 1824, p. 111. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 6, pl. III. Zool. Ser.

Manatus australis Tilesius, Jahrb. Naturg., I, 1802, p. 23.



FIG. VI. *TRICHECHUS MANATUS*. MANATEE.

Manatus americanus Desm., Nouv. Dict. Hist. Nat., 1817, p. 262, pl. 96. (Part.)

Manatus fluviatilis Wagn., Schreb. Säugth., Suppl., 1846, pl. 379.

MANATEE. *Vacca de Agua* in Guatemala.

1. Adult — P. Florida. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — Pres. Florida. C. B. Cory, Boston, Mass.

3-4. Adult ♂ Coll. Izabal, Guatemala. Heller & Barber.

5-6. Adult ♀ Coll. Izabal, Guatemala. Heller & Barber.

Family II. **Dugongidae. Dugongs.**

Genus 34. **Dugong.**

Dugong Lacépède, Tabl. Mamm., 1799, p. 17. Type *Trichechus dugon* Müller.

Platystomus Fisch., Das Nationalmus. Naturg. Paris, II, 1803, p. 353.

Dugungus Tiedem., Zool., I, 1808, p. 554.

Halicore Illig., Prodr. Syst. Mamm. et Av., 1811, p. 140.

Odobenus (sic) Rafin., Analyse de la Nature, 1815, p. 60. (nec Briss., 1762.)

Dugongidus Gray, Lond. Med. Repos., xv, 1821, p. 309.

47. **Dugong australis** (Owen).

Halicore australis Owen, Jukes's Voy. of 'Fly,' II, 1847, Append., VI, p. 323, pl. 27, figs. 1, 3, 5.

DUGONG.

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Order V. **Ungulata. Hoofed Mammals.**

SUBORDER I. ARTIODACTYLA.

SECTION A. SUINA.

Family I. **Suidæ. Pigs.**

Genus 35. **Sus.**

- Sus** Linn., Syst. Nat., 1, 1758, p. 49. Type-*Sus scrofa* Linnæus.
Aper Pall., Miscell. Zool., 1766, p. 16, tab. II, IV, figs. 1, 2, 4.
Capriscus Glog., Hand- u. Hilfsb. Naturg., 1, 1841, pp. xxxii, 130.
Centuriosus Gray, Proc. Zool. Soc., 1862, p. 17.
Gyrosus Gray, Cat. Bones Mamm. Brit. Mus., 1862, p. 278.
Eusus Gray, Proc. Zool. Soc., 1868, p. 32.
Euhys Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 339.

48. **Sus scrofa** Linnæus.

- Sus scrofa* Linn., Syst. Nat., 1, 1758, p. 49. Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 337.
Sus setosus aper Bodd., Elench. Anim., 1, 1785, p. 157.
Sus scrofa ferus Gmel., Syst. Nat., 1788, p. 217.
Sus scrofa var. *barbarus* Sclat., Proc. Zool. Soc., 1860, p. 443.
Sus libycus Gray, Proc. Zool. Soc., 1868, p. 31.
Sus scrofa var. *nigripes* Blanf., Jour. Asiat. Soc. Beng., XLIV, 1875, p. 112.

WILD BOAR.

1. Adult ♂ P. France. Ward's Nat. Scien. Establ., Rochester, N. Y.

49. **Sus papuensis** Lesson & Garnot.

- Sus papuensis* Less. & Garn., Bull. Scien. Nat., VII, 1826, pp. 80, 96.
Porcula papuensis Fitzin., Sitzungs b. Math.-Nat. Cl. K. Akad. Wiss. Wien., 1864, p. 23. Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 339.
Sus aruensis Rosenb., Malay Archip., 1878, p. 362.

THE BENE.

1. Adult — P. New Guinea. Ward's Nat. Scien. Establ., Rochester, N. Y.

50. *Sus ahænobarbus* Huet.

Sus ahænobarbus Huet, Le Natural., 1888, p. 5, fig. 1. Elliot, Pub. Field Columb. Mus., 1, 1896, p. 67. Zoöl. Ser.

Sus palavensis Nehring, Abh. Zool. Mus. Dresd., 1889, pp. 22, 32.

Sus balabacensis F.-Major, Ann. Mag. Nat. Hist., 6th Ser., xix, 1897, p. 534.

ISLAND OF PALAWAN WILD HOG.

1. Adult ♂ P. Island of Palawan, Philippine Archipelago. J. B. Steere.
2. Adult ♀ P. Island of Palawan, Philippine Archipelago. J. B. Steere.

51. *Sus celebensis* Müller & Schlegel.

Sus celebensis Müll. & Schleg., Verh. Zoogd. Ind. Arch., 1842, pl. 28 bis, fig. 1.

Sus timorensis Müll. & Schleg., Verh. Zoogd. Ind. Arch., 1842, pp. 42, 173, 178, pl. 31, figs. 1-3

Sus philippinensis Nehring, Sitzungsab. Geo. Nat. Fr., 1886, p. 83. (note.)

Sus marchei Huet, Le Natural., 1888, p. 6, fig. 3. (nec skull.)

MÜLLER'S WILD HOG.

1. Adult ♂ P. Philippine Islands. J. B. Steere.

Genus 36. *Macrocephalus*.

Macrocephalus Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tabl. Gen.; 1775. Type *Aper æthiopicus* Pallas.

Phaco-choerus F. Cuv., in G. Cuv. Règn. Anim., 1817, p. 236.

Eureodon Fisch., Mém. Soc. Imp. Nat. Mosc., v. 1817, p. 373.

Phôcochôrus Voigt, Uebers. Naturg., 1819, p. 422.

Phascochaeres Rüpp., Atl. Reis. nörd. Africa, 1, 1826, p. 61.

Phacellochoerus Hemp. & Ehr., Sym. Phys., Mamm., II, 1832, Sig. qq. Nov.

Dinochærus Glog., Hand- u. Hilfsb. Naturg., 1, 1841, pp. xxxii, 131.

Koiropotamus Gray, List. Spec. Mamm. Brit. Mus., 1843, p. xxvii.

Choiripotamus Gray, List. Spec. Mamm. Brit. Mus., 1843, p. 185.

Potamochærus Gray, Proc. Zoöl. Soc., 1852, p. 129, pl. xxxiv.

52. Macrocephalus africanus (Gmelin).

Sus africanus Gmel., Syst. Nat., 1, 1788, p. 220.

Potamochoerus africanus Gray, Proc. Zool. Soc., 1852, p. 131;
1868, p. 34.

Phacochærus æliani Sclat., Proc. Zool. Soc., 1869, p. 276, pl. xx.

Phacochærus africanus Elliot, Pub. Field Columb. Mus., 1, 1897,
p. 109. Zool. Ser.



FIG. VII. MACROCEPHALUS AFRICANUS. WART HOG.

WART HOG. *Dofar* in Somaliland.

1. Adult ♂ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
3. Juv. ♀ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.
4. Juv. ♂ Coll. Anouf Prairie, Somaliland, E. Africa. D. G. Elliot.

5-6. Juv. ♀ Coll. Anouf Prairie, Somaliland, E. Africa. D. G. Elliot.

53. *Macrocephalus larvatus* (F. Cuvier).

Potamochærus larvatus F. Cuv., Mém. Mus. Hist. Nat., VIII, 1822, p. 447, pl. 22. F.-Major, Proc. Zool. Soc., 1897, p. 363, pls. XXV, 26, fig. 2, p. 365, figs. 1-2.

Potamochærus edwardsi Grandidier, Rev. Mag. Zool., 1867, p. 318. Sclat., Proc. Zool. Soc., 1894, p. 92.

MADAGASCAR WILD HOG.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Family II. Tagassuidæ. Peccaries.

Genus 37. Tagassu.

Tagassu Frisch., Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab. Gen., 1775. Type *Sus tajacu* Linnæus.

Tayassu Fisch., Zoogn., III, 1814, p. 284.

Dicotyles G. Cuv., Règn. Anim., I, 1817, p. 237.

Notophorus Fisch., Mém. Soc. Imp. Nat. Moscou, v, 1817, pp. 373, 418.

Adenonotus Brookes, Prodr. Syn. Anim., II, 1828.

Subgenus A. Tagassu.

54. *Tagassu angulatum* (Cope).

Dicotyles angulatus Cope, Amer. Nat., XXIII, 1889, p. 147.

Dicotyles tajacu Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 33, pl. 11. Zool. Ser. (Part.)

Tagassu angulatum Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 63, pls. XXV, XXVI. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 35. Zool. Ser.

TEXAN PECCARY. *Moran, Jabali*, in Mexico.

1. Adult ♂ P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♀ P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Tagassu angulatum humerale* (Merriam).

Tayassu angulatus humeralis Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 122.

Tagassu angulatum humerale Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 63. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 35. Zoöl. Ser.

ARMERIA PECCARY.

1. Adult ♀ Pres. Jalapa, State of Vera Cruz, Mexico. Kennedy & Stevenson.
2. Juv. ♂ Pres. Jalapa, State of Vera Cruz, Mexico. Kennedy & Stevenson.
- 3-9. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 10-12. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
13. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 14-17. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

55. *Tagassu torvus* (Bangs).

Tagassu torvus Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 164.

FIERCE PECCARY.

- 1-2. Adult — P. Naranja, Colombia, S. America. H. H. Smith.

Subgenus B. *Olidosus*.

Dicotyles Gray, Proc. Zoöl. Soc., 1868, p. 45. (nec Cuvier.)

Olidosus Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 120.

56. *Tagassu pecari* (Fischer).

Tagassu pecari Fisch., Zoogn., III, 1814, p. 285.

Sus albirostris Illig., Abhandl. K. Preuss. Akad. Wiss. Berl., 1815, p. 115.

Dicotyles labiatus Cuv., Règn. Anim., I, 1817, p. 238.

Tagassu pecari Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 66. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 37. Zoöl. Ser.

WHITE-LIPPED PECCARY. *Warree*, *Carablanca*, in Costa Rica.

1. Adult — P. Naranja, Colombia, S. America. H. H. Smith.

SECTION B. TYLOPODA.

Family III. **Camelidæ. Camels and Llamas.**Genus 38. **Camelus.**

Camelus Linnæus, Syst. Nat., I, 1758, p. 65. Type *Camelus dromedarius* Linnæus.

57. Camelus dromedarius Linnæus.

Camelus dromedarius Linn., Syst. Nat., I, 1758, p. 65.

Camelus arabicus Desmoul., Dict. Class. Hist. Nat., III, 1825, p. 452.

Camelus dromas Pall., Zoogr. Ross.-Asiat., 1831, p. 197.

DROMEDARY.

1. Adult ♂ Pres. ———? Pure Food Company, Chicago.

58. Camelus bactrianus Linnæus.

Camelus bactrianus Linn., Syst. Nat., I, 1758, p. 65. et Auct.

BACTRIAN OR TWO-HUMPED CAMEL.

1. Adult ♂ Pres. ———? Menagerie, Lincoln Park, Chicago.

Genus 39. **Lama.**

Lama Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 4, Tab. Gen., 1775. Type "*Das Amerikanische Kameel*" = *Camelus lacma* Cuvier.

Lacma Tiedem., Zool., 1808, pp. xv, 420.

Llacma Illig., Abhandl. K. Akad. Wiss. Berl., (1811) 1815, p. 48.

Auchenia Illig., Prodr. Syst. Mamm. et Av., 1811, p. 103.

Auchenias Wagn., Archiv f. Naturg., 1843, p. 349.

59. Lama huanacha Molina.

Lama huanachus Molina, Sagg. Stor. Nat. Chili, I, 1782, p. 317.

Thomas, Proc. Zool. Soc., 1891, p. 387.

Auchenia huanaca Griff., Anim. Kingd., v, 1827, p. 299.

Llama guanacus Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p.

101.

HUANACO.

1. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.

60. Lama glama (Linnæus).*Camelus glama* Linn., Syst. Nat., I, 1758, p. 65.*Lama glama* Thos., Proc. Zoöl. Soc., 1891, p. 387.LLAMA. Domestic race of *L. huanacha* Mol.

1-3. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.

61. Lama pacos (Linnæus).*Camelus pacos* Linn., Syst. Nat., I, 1758, p. 66.*Lama pacos* Thos., Proc. Zoöl. Soc., 1891, p. 387.ALPACA. Domestic race of *L. huanacha* Mol.

1. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.

62. Lama vicugna Molina.*Lama vicugna* Molina, Sagg. Stor. Nat. Chile, I, 1782, p. 313.

Thos., Proc. Zoöl. Soc., 1891, p. 387.

VICUGNA.

1. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.

SECTION C. TRAGULINA. CHEVROTAINS.

Family IV. **Tragulidæ.**Genus 40. **Tragulus.****Tragulus** Brisson, Regn. Anim., 1762, pp. 12, 65. Type *Tragulus indicus* Brisson.*Meminna* Gray, Lond. Med. Repos., xv, 1821, p. 307. (nec Fischer, 1814.)**63. Tragulus meminna** (Erxleben).*Moschus meminna* Erxl., Syst. Regn. Anim., 1777, p. 322.*Meminna indica* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 172.*Tragulus meminna* Thos., Proc. Zoöl. Soc., 1891, p. 385.

INDIAN CHEVROTAIN.

1. Adult ♂ P. Ceylon. Ward's Nat. Scien. Establ., Rochester, N. Y.

SECTION D. PECORA. RUMINANTS.

Family V. **Cervidæ. Deer.**Subfamily I. **Moschinæ.**Genus 41. **Moschus. Musk-deer.**

Moschus Linn., Syst. Nat., 1, 1758, p. 66. Type *Moschus moschiferus* Linnæus.

Odontodorcus Gistel, Naturg. Thierr. für höhere Schulen, 1848, p. 82.

64. Moschus moschiferus Linnæus.

Moschus moschiferus Linn., Syst. Nat., 1, 1758, p. 66.

Moschus sibiricus Esch., Isis, 1830, p. 606.

Moschus moschiferus altaicus Brant, Medicin. Zool., 11, 1833, p. 347.

Moschus chrysogaster Hodg., Journ. Asiat. Soc. Beng., VIII, 1839, p. 203.

Moschus leucogaster Hodg., Journ. Asiat. Soc. Beng., VIII, 1839, p. 203.

Moschus saturatus Hodg., Journ. Asiat. Soc. Beng., VIII, 1839, p. 203.

Moschus moschiferus fasciatus Milne-Edw., Ann. Scien. Nat., Sér. 5me, 11, 1864, p. 119.

MUSK-DEER.

1. Adult ♂ P. Altai Mountains, Asia. J. Friesser.

2. Adult ♀ P. Altai Mountains, Asia. J. Friesser.

Subfamily II. **Cervinæ.**Genus 42. **Muntiacus.**

Muntiacus Rafin., Analyse de la Nature, 1815, p. 56. Type *Cervus muntjak* Zimmermann.

Cervulus Blainv., Bull. Soc. Philom. Paris, 1816, p. 74.

Styllocerus! H. Smith, Griff. Anim. Kingd., v, 1827, p. 319.

Prox Ogilby, Proc. Zool. Soc., 1837, p. 135.

Dicrocerus! Lartet, Compt. Rend., v, 1837, p. 158.

Dicroceros! Agass., Nomen. Zool., Addend., 1846, p. 4.

Dicroceras Bedd., Cambrid. Nat. Hist., Mamm., x, 1902, p. 301.

65. Muntiacus muntjac (Zimmermann).

Cervus muntjak Zimm., Geog. Gesch., 11, 1780, p. 131.

Cervus vaginalis Bodd., Elench. Anim., I, 1785, p. 136.

Cervulus moschatus Blainv., Bull. Soc. Philom. Paris, 1816, p. 77.

Cervus aureus H. Smith, Griff. Anim. Kingd., IV, 1827, p. 148.

Cervus ratwa Hodg., Asiat. Research., XVIII, Pt. 2, 1833, p. 139, pl. I.

Cervus melas Ogilby, Royle's Bot. Himal., 1839, p. LXXIII.

Styloceros! muntiacus Kelaart, Prodr. Faun. Zeyl., 1852, p. 85.

BARKING DEER.

1. Adult ♂ P. South West India. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Borneo. Menage Scientific Exped. Bourns & Worcester.

3. Adult ♀ P. Borneo. Menage Scientific Exped. Bourns & Worcester.

Genus 43. **Elaphodus.**

Elaphodus A. Milne-Edw., Nouv. Archiv. Mus. Hist. Nat. Paris, 1871, p. 93. Type *Elaphodus cephalophus!* A. Milne-Edwards.

Lophotragus Swinh., Proc. Zoöl. Soc., 1874, p. 453, pl. LIX.

66. **Elaphodus cephalolophus** A. Milne-Edwards.

Elaphodus cephalophus! A. Milne-Edw., Nouv. Arch. Mus. Hist. Nat. Paris, 1871, p. 93.

CHINESE MUNTJAC.

1. Adult ♂ Exch. Ta-tsien-lou, China. Mus. Hist. Nat. Paris.

Genus 44. **Hydrelaphus.**

Hydrelaphus Lydekker, Deer of all Lands, 1898, p. 219. Type *Hydropotes inermis* Swinhoe.

Hydropotes Swinh., Proc. Zoöl. Soc., 1870, p. 90. (nec *Hydropota* Rondani, 1861, Diptera.)

67. **Hydrelaphus inermis** (Swinhoe).

Hydropotes inermis Swinh., Proc. Zoöl. Soc., 1870, p. 89.

CHINESE WATER DEER.

1. Adult ♂ P. Vicinity of Shanghai, China. Rowland Ward & Co.

Genus 45. **Rangifer. Caribou.**

Rangifer Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab. Gen., 1775. Type *Rangifer lapponicus* Frisch=*Cervus tarandus* Linnæus.

Tarandus Billberg, Syn. Faun. Scandinav., Mamm., 1, Conspec. A. D. 1828, p. 22.

68. Rangifer tarandus (Linnæus).

Cervus tarandus Linn., Syst. Nat., 1, 1766, p. 93.

Cervus guettardi Desm., Mamm., 11, 1822, p. 447.

Cervus tarandus schottini Sternb., Isis, 1828, p. 482.

Rangifer tarandus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 181.

REINDEER.

1. Adult ♂ P. Norway. Ward's Nat. Scien. Establ., Rochester, N. Y.

69. Rangifer caribou (Gmelin).

Cervus tarandus caribou Gmel., Syst. Nat., 1, 1788, p. 177.

Cervus tarandus var. *β sylvestris* Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 250.

Cervus hastalis Agass., Sillim. Journ., 1847, p. 436.

Rangifer caribou Aud. & Bachm., Quad. N. Amer., 111, 1853, p.

111. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p.

35, pl. XIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.

& W. Indies, F. C. M. Pub., VI, 1905, p. 37. Zoöl. Ser.

CARIBOU.

1. Adult ♂ P. Maine. Ward's Nat. Scien. Establ., Rochester, N. Y.

70. Rangifer montanus Seton-Thompson.

Rangifer montanus Seton-Thompson, Ottawa Nat., 1899, p. 129.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 36.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 38. Zoöl. Ser.

MOUNTAIN CARIBOU.

1-2. Juv. ♂ P. 400 miles N. E. Edmonton, Brit. Columbia, Canada. C. F. Periolat.

3-4. Adult ♀ P. 400 miles N. E. Edmonton, Brit. Columbia, Canada. C. F. Periolat.

71. Rangifer terrænovæ Bangs.

Rangifer terrænovæ Bangs, Private Pub., Boston, 1896. Allen,

Bull. Amer. Mus. Nat. Hist. N. Y., 1896, p. 233. Elliot, Syn.

N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 36. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 38. Zoöl. Ser.

NEWFOUNDLAND CARIBOU.

1-3. Adult ♂ Pres. Newfoundland. S. V. Kennedy.

4-5. Adult ♀ Pres. Newfoundland. S. V. Kennedy.

6. Juv. ♀ Pres. Newfoundland. S. V. Kennedy.

72. Rangifer stonii Allen.

Rangifer stonei Allen, Bull. Amer. Mus. Nat. Hist. N. Y., 1901, p. 143. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 483. Zoöl. Ser. *Id.* Pub. Field Columb. Mus., III, 1901, p. 59, pl. XIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 39. Zoöl. Ser.

STONE'S CARIBOU.

1. Adult ♂ P. Kenai Peninsula, Alaska. C. F. Periolat.

73. Rangifer arcticus (Richardson).

Cervus tarandus var. *a. arctica* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 241.

Rangifer arcticus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 37. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 40. Zoöl. Ser.

BARREN GROUND CARIBOU.

1. Adult ♂ P. Northern Alaska. E. A. McIlhenny.

2. Adult ♀ P. Northern Alaska. E. A. McIlhenny.

3. Juv. — P. Northern Alaska. E. A. McIlhenny.

Genus 46. **Alce.**

Alce Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab. Gen., 1775. H. Smith, Griff. Anim. Kingd., v, 1827, p. 303. Type *Cervus alces* Linnæus.

Alces Jard., Nat. Libr., Mamm., III, 1835, p. 125.

Alcelaphus Glog., Hand- u. Hilfsb. Naturg., 1841, p. 143. (nec Blainville, 1816.)

Paralces Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 160.

74. Alce alces (Linnæus).

Cervus alces Linn., Syst. Nat., I, 1758, p. 66.

Alces americanus Jard., Nat. Libr., Mamm., III, 1835, p. 125. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 38, pl. XIV. Zoöl. Ser.

- Alces machlis* Ogilby, Proc. Zoöl. Soc., 1836, p. 135.
Alces palmatus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 182.
Cervus lobatus Agass., Proc. Bost. Soc. Nat. Hist., 1846, p. 188.
Alces muswa Rich., Zoöl. Voy. 'Herald', Mamm., 1852, p. 66.
Alce alces Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 41. Zoöl. Ser.

MOOSE.

1. Adult ♂ P. Nova Scotia, Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Nova Scotia, Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.

75. *Alce gigas* (Miller).

- Alces gigas* Miller, Proc. Biol. Soc. Wash., XIII, 1899, p. 57. Elliot,
 Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 38. Zoöl. Ser.
Alce gigas Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 41. Zoöl. Ser.

ALASKAN MOOSE.

- 1-2. Adult ♂ P. Kenai Peninsula, Alaska. C. F. Periolat.
- 3-4. Adult ♀ P. Kenai Peninsula, Alaska. C. F. Periolat.
5. Juv. ♀ P. Kenai Peninsula, Alaska. C. F. Periolat.

Genus 47. *Cervus*.

Cervus Linn., Syst. Nat., I, 1758, p. 66. Type *Cervus elaphus* Linnaeus.

- Rusa* H. Smith, Griff. Anim. Kingd., v, 1827, p. 309.
Axis H. Smith, Griff. Anim. Kingd., v, 1827, p. 312.
Hippelaphus Bonap., Iconogr. Faun. Ital., I, 1836, p. 4. (nec Reichenb., 1835.)
Hyelaphus Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1846, p. 181.
Pseudaxis Gray, Cat. Ruminan. Mamm. Brit. Mus., 1872, p. 70.
Elaphoceros Fitzin., Sitzungsber. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXVIII, 1874, Abth. I, p. 602.

Subgenus A. *Rusa*.76. *Cervus unicolor* Bechstein.

- Cervus unicolor* Bechst., in Penn. Allgem. Uebers. vierf. Thiere, I, 1799, p. 112.
Cervus albicornis Bechst., in Penn. Allgem. Uebers. vierf. Thiere, I, 1799, p. 112.

Cervus niger Blainv., Bull. Soc. Philom. Paris, 1816, p. 76.

Cervus aristotelis Cuv., Ossem. Foss., IV, 1825, p. 503.

Cervus leschenaultii Cuv., Ossem. Foss., IV, 1825, p. 506.

Cervus heterocervus Hodg., Journ. Asiat. Soc. Beng., x, 1841,
p. 721.

SAMBAR.

1. Adult ♂ P. India. Ward's Nat. Scien. Establ., Rochester,
N. Y.

Subgenus B. *Pseudaxis*.

77. *Cervus hortulorum* Swinhoe.

Cervus pseudaxis Gray, Proc. Zool. Soc., 1861, p. 236. (nec Eydoux
& Souleyet.)

Cervus hortulorum Swinh., Proc. Zool. Soc., 1864, p. 169.

Cervus dybowskii Taczanow., Proc. Zool. Soc., 1876, p. 123.

PEKIN SIKA.

1. Adult ♂ P. East Siberia. J. F. G. Umlauff.
2. Adult ♀ P. East Siberia. J. F. G. Umlauff.

78. *Cervus culionensis* Elliot.

Cervus culionensis Elliot, Pub. Field Columb. Mus., 1, 1896,
pp. 68, 157.

CALAMIANES DEER.

1. Adult ♂ Type. P. Culion Island, Calamian Group, Philippine
Archipelago. Menage Scientific Exped. Bourns & Worcester.
2. Adult ♀ Paratype. P. Culion Island, Calamian Group, Philip-
pine Archipelago. Menage Scientific Exped. Bourns & Wor-
cester.

*79. *Cervus steerii* Elliot.

Cervus steerii Elliot, Pub. Field Columb. Mus., 1, 1896, p. 72.
Zool. Ser.

STEERE'S PIGMY DEER.

1. Adult ♂ Type. P. Basilan Island, Philippine Archipelago. J.
B. Steere.

80. *Cervus canadensis* (Erxleben).

Cervus elaphus canadensis Erxleb., Syst. Regn. Anim., 1777, p. 305.

* Mr. Lydekker in the "Deer of all Lands" refers this form to *C. nigricans* Brooke. To settle this question satisfactorily it will be necessary to get together specimens of the two forms, as the best descriptions often mislead. From my recollection of the type of *C. steerii* I did not think it was the same as *C. nigricans* when I examined the type of that animal in London, and its diminutive size precludes it from any comparison with *C. philippinus* H. Smith.

Cervus wapiti Barton, Journ. Med. & Physc. Phil., III, 1808, p. 36.

Cervus strongyloceros! Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 251.

Cervus canadensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 34, pl. XII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 41. Zoöl. Ser.

WAPITI, EASTERN ELK.

1. Adult ♂ P. — ? Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. — ? Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♂ P. — ? C. E. Akeley.
4. Adult ♀ P. — ? C. E. Akeley.
5. Juv. — P. — ? C. E. Akeley.

a. *Cervus canadensis occidentalis* (Smith).

Cervus occidentalis H. Smith, Griff. Anim. Kingd., IV, 1827, p. 101.

Cervus roosevelti Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 271.

Cervus canadensis occidentalis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 34. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 42. Zoöl. Ser.

PACIFIC COAST WAPITI.

- 1-5. Adult ♂ Coll. Head waters of the Bogashiel River, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
- 6-7. Adult ♀ P. Head waters of the Elwah River, Olympic Mountains, Clallam County, Washington. A. Baumann.
8. Juv. ♀ P. Head waters of the Elwah River, Olympic Mountains, Clallam County, Washington. C. C. Bowmann.

Subgenus C. *Dama*. Fallow Deer.

Alce Blumenb., Handb. Naturg., 6te Aufl., 1799, p. 697. (nec Frisch.)

Dama H. Smith, Griff. Anim. Kingd., V, 1827, p. 306.

Megaceros! Owen, Rep. Brit. Assoc., 1844, p. 237.

Platyceros! Wagn., Schreb. Säugth., Suppl., IV, 1854, p. 347.

Dactyloceros! Wagn., Schreb. Säugth., Suppl., V, 1855, p. 352.

Palmatus Giebel, Säugth., 1859, p. 351.

81. *Cervus dama* Linnæus.

Cervus dama Linn., Syst. Nat., I, 1758, p. 67.

Cervus platyceros! Cuv., Tab. Élé. Hist. Nat., 1798, p. 160.

Dama vulgaris Gray, List Spec. Mamm. Brit. Mus., 1843, p. 181.

FALLOW DEER.

1. Adult ♂ P. — ? Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Vosges, France. Deyrolle Fils.

Genus 48: **Capreolus.**

Capreolus Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab. Gen., 1775. Type "Das Rehe" = *Cervus capreolus* Linnæus.

82. **Capreolus capreolus** (Linnæus).

Cervus capreolus Linn., Syst. Nat., 1, 1758, p. 68.

Capreolus vulgaris Fitzin., Beitr. Landesk. österreichs., 1, 1832, p. 317.

Capreolus europæus Glog., Hand- u. Hilfsb. Naturg., 1841, p. 140.

Capreolus capræa Gray, List Spec. Mamm. Brit. Mus., 1843, p. 917.

ROEBUCK.

1. Adult ♂ P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.

83. **Capreolus pygargus** (Pallas).

Cervus pygargus Pallas, Reis. Russ. Reichs, 1, 1771, p. 453.

Capreolus pygargus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 176.

SIBERIAN ROE.

1. Adult ♂ Exch. Irkutsk, Central Asia. Mus. Hist. Nat. Paris.

2. Adult ♂ Summer coat. Exch. Irkutsk, Central Asia. Mus. Hist. Nat. Paris.

3. Adult ♀ Exch. Irkutsk, Central Asia. Mus. Hist. Nat. Paris.

4. Adult ♂ P. Amur District, East Siberia. J. F. G. Umlauff.

5. Adult ♀ P. Amur District, East Siberia. J. F. G. Umlauff.

Genus 49. **Odontocælus.**

Odocoileus (sic) Rafin., Atlantic Jour., 1, 1832, No. 3, p. 109, fig. Type *Odocoileus! speleus* Rafinesque = ? *Cervus dama americanus* Erxleben.

Mazama H. Smith, Griff. Anim. Kingd., v, 1827, p. 314. (nec Rafinesque, 1817.)

- Dorcelaphus* Glog., Hand - u. Hilfsb. Naturg., 1841, pp. xxxiii, 140.
Cariacus Less., Nouv. Tabl. Règn. Anim., 1842, p. 173.
Blastocerus Wagn., Schreb. Säugth., Suppl., iv, 1844, p. 366, Taf. ccli B, ccxlviii F.
Macrotis Wagn., Schreb. Säugth., Suppl., iv, 1844, pp. 368-372. (nec Dejean, 1833, Coleopt.)
Reduncina Wagn., Schreb. Säugth., Suppl., iv, 1844, p. 373, Taf. ccxlvii H.
Eucervus Gray, Ann. Mag. Nat. Hist., 3d Ser., xviii, 1866, p. 338.
Otelaphus Fitzing., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., lxxviii, Abth. 1, 1874, pp. 347, 356.
Gymnotis Fitzing., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., lxxviii, Abth. 1, 1879, p. 343.

Subgenus A. *Odontocælus*.

84. *Odontocælus americanus* (Erxleben).

- Cervus dama americanus* Erxl., Syst. Regn. Anim., 1777, p. 312.
Cervus virginianus Bodd., Elench. Anim., 1, 1785, p. 136.
Odocoileus! americanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 40. Zoöl. Ser.
Odontocælus americanus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 43. Zoöl. Ser.

VIRGINIAN WHITE-TAILED DEER.

- 1-4. Adult ♂ P. Florence Co., Wisconsin. C. E. Akeley.
 5-8. Adult ♀ P. Florence Co., Wisconsin. C. E. Akeley.
 9-16. Juv. — P. Florence Co., Wisconsin. C. E. Akeley.
 17. Adult ♂ Albino. Pres. Minnesota. E. E. Ayer.

a. *Odontocælus americanus couesi* (Rothrock MS.).

- Cervus mexicanus* Baird, N. Amer. Mamm., 1857, p. 653. (nec Gmel.)
Cervus virginianus var. *couesi* Coues & Yarrow, in Wheeler's Geog. & Geol. Surv. W. 100th Merid., v, 1875, p. 72.
Odocoileus! americanus couesi Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., ii, 1901, p. 40. Zoöl. Ser.
Odontocælus americanus couesi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 70. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 45. Zoöl. Ser.

COUES'S WHITE-TAILED DEER.

- 1-2. Adult ♂ P. Santa Cruz Mountains, State of Sonora, Mexico. W. W. Price.

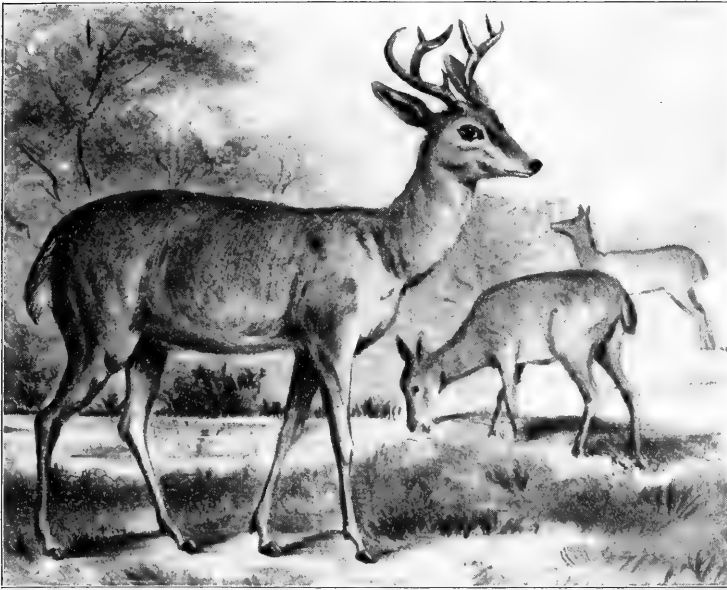


FIG. VIII. ODONTOCÆLUS A. COUESI. COUES'S WHITE-TAILED DEER.

3. Juv. ♂ P. Santa Cruz Mountains, State of Sonora, Mexico. W. W. Price.

b. *Odocoileus americanus texensis* (Mearns).

Dorcelaphus texanus! Mearns, Proc. Biol. Soc. Wash., XII, 1898, p. 23.

Odocoileus! americanus texensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 40. Zoöl. Ser.

Odocoileus americanus texensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 70, pls. xxix, xxx. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 45. Zoöl. Ser.

TEXAN WHITE-TAILED DEER.

- 1-6. Adult ♂ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.
 7. Adult ♀ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.

8. Juv. ♂ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.
9. Juv. ♀ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.

85. *Odontocælus battyi* Allen.

Odocoileus! battyi Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1903, p. 591.

Odontocælus battyi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 71. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 45. Zoöl. Ser.

BATTY'S WHITE-TAILED DEER.

- 1-8. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 9-11. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 12-16. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 17-23. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 24-34. Adult ♂ Coll. Cuatro Cienegas, State of Coahuila, Mexico. Heller & Barber.
- 35-38. Adult ♀ Coll. Cuatro Cienegas, State of Coahuila, Mexico. Heller & Barber.

86. *Odontocælus rothschildi* (Thomas).

Dama rothschildi Thos., Novitat. Zool., IX, 1902, p. 136.

Odontocælus rothschildi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 72. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 46. Zoöl. Ser.

ROTHSCHILD'S WHITE-TAILED DEER.

1. Adult ♂ P. Coiba Island, Colombia. J. H. Batty.
- 2-3. Adult ♀ P. Coiba Island, Colombia. J. H. Batty.
- 4-5. Juv. ♀ P. Coiba Island, Colombia. J. H. Batty.

87. *Odontocælus columbianus* (Richardson).

Cervus macrotis var. *β columbiana* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 257.

Odocoileus! columbianus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 41. Zoöl. Ser.

Odontocælus columbianus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 48. Zoöl. Ser.

COLUMBIAN BLACK-TAILED DEER.

1. Adult ♂ P. California. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 4-5. Adult ♂ Coll. Agness, Curry Co., Oregon. E. Heller.

a. Odontocælus columbianus sitkensis Merriam.

Odocoileus! columbianus sitkensis Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 100. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 42. Zoöl. Ser.

Odontocælus columbianus sitkensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 48. Zoöl. Ser.

SITKA BLACK-TAILED DEER.

1. Adult ♀ Coll. Hot Springs, Sitka, Alaska. D. G. Elliot.
2. Juv. ♀ Coll. Hot Springs, Sitka, Alaska. D. G. Elliot.

88. *Odontocælus hemionus* (Rafinesque).

Cervus hemionus Rafin., Am. Month. Mag., I, 1817, p. 436.

Cervus macrotis Say, Narr. Long's Exped. Rocky Mts., II, 1823, p. 88.

Odocoileus! hemionus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 42. Zoöl. Ser.

Odontocælus hemionus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 48. Zoöl. Ser.

MULE DEER.

1. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
2. Adult ♂ Coll. Long Cañon, Mt. Whitney, California. E. Heller.
3. Adult ♀ Coll. Long Cañon, Mt. Whitney, California. E. Heller.
4. Adult ♂ P. — ? C. E. Akeley.
5. Adult ♀ P. — ? C. E. Akeley.
6. Juv. ♀ P. — ? C. E. Akeley.

a. Odontocælus hemionus californicus (Eaton).

Cervus macrotis var. *californicus* Eaton, Amer. Nat., 1876, p. 464.

Odocoileus! hemionus californicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 43. Zoöl. Ser.

Odontocælus hemionus californicus Elliot, Mamm. Middle Amer.

& W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 77. Zoöl. Ser.
Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., VI, 1905, p. 49. Zoöl. Ser.

CALIFORNIA MULE DEER.

- 1-2. Adult ♂ Coll. Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 3-4. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
5. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 6-8. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9-12. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
14. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

Subgenus B. *Blastocerus*.

89. *Odontocælus bezoarticus* (Linnæus).

Cervus bezoarticus Linn., Syst. Nat., I, 1758, p. 67.

Cervus campestris F. Cuv., Dict. Scien. Nat., VII, 1817, p. 484.

Cervus leucogaster Schreb., Säugth., V, 1817, p. 1127.

Cervus azaræ Wiegman., Isis, 1833, p. 954.

Cervus comosus Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 368.

PAMPAS DEER.

1. Adult ♂ P. Uruguay. Ward's Nat. Scien. Establish., Rochester, N. Y.

Genus 50. *Hippocamelus*. Bockets.

Hippocamelus Leuckart, Dissert. Inaug. de *Equo bisulco* Molinæ, 1816, p. 24. Type *Hippocamelus dubius* Leuckart = *Equus bisulcus* Molina.

Mazama Rafin., Amer. Month. Mag., I, 1817, p. 363.

Subulo H. Smith, Griff. Anim. Kingd., V, 1827, p. 318.

Passalites Glog., Hand - u. Hilfsb. Naturg., I, 1841, p. 140.

Cervequus Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 173.

Subula Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 174.
 (nec Schum., 1817.)

- Coassus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 174.
Furcifer Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 384. Sundev., K. Oversigt. Vet.-Akad. Handl. Stockh., 1844 (1846), p. 183.
Anomolocera Gray, Scientific Opinion, Lond., II, 1869, p. 385.
Xenelaphus Gray, Proc. Zool. Soc., 1869, p. 498.
Homelaphus Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 90.
Huamela Gray, Ann. Mag. Nat. Hist., 4th Ser., X, 1872, p. 445.
Creagroceros! Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXVIII, Abth. I, 1874, p. 348.
Nanelaphus Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXVIII, Abth. I, 1874, p. 360.
Doryceros! Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXVIII, Abth. I, 1874, p. 360.

Subgenus A. *Mazama*.

90. *Hippocamelus sartori* (Saussure).

- Cervus sartorii* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 252.
Mazama sartori Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 79, fig. xxxi, pl. xxxi. Zool. Ser.
Hippocamelus sartori Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 50. Zool. Ser.



FIG. IX. HIPPOCAMELUS SARTORI. SARTORI'S BROCKET.

SARTORI'S BROCKET.

1. Adult ♂ Pres. Jalapa, State of Vera Cruz, Mexico. Kennedy & Stevenson.
2. Adult ♀ P. Mexico. Ward's Nat. Scien. Establ., Rochester, N. Y.

91. *Hippocamelus nemorivagus* (F. Cuvier).

Cervus nemorivagus F. Cuv., Dict. Scien. Nat., VII, 1817, p. 485.

WOOD BROCKET.

1. Adult — P. Guairaca, Colombia, South America. Am. Mus. Nat. Hist. N. Y. H. H. Smith.

Subgenus B. *Xenelaphus*.92. *Hippocamelus antisiensis* (d'Orbigny).

Cervus antisiensis d'Orbig., Archiv. Mus. Paris, III, 1834, p. 91.

Anomolocera huamel Gray, Scient. Opinion, 1869, p. 384.

Xenelaphus leucotis Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 89.

Furcifer antisiensis Nehr., Sitzungsab. Gesc. Nat. Berl., 1895, p. 9.

PERUVIAN GUEMAL.

1. Adult ♂ Exch. Ecuador, South America. British Museum.

Family VI. **Giraffidæ.**Genus 51. **Giraffa.**

Giraffa Briss., Regn. Anim., 1762, pp. 12, 37. Type *Giraffa giraffa* Brisson = *Cervus camelopardalis* Linnæus.

93. *Giraffa camelopardalis* (Linnæus).

Cervus camelopardalis Linn., Syst. Nat., I, 1758, p. 66.

GIRAFFE.

1. Adult — P. Abyssinia. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ Pres. —? Ringling Bros.

Family VII. **Antilocapridæ. Prong-horn Antelope.**

Genus 52. **Antilocapra.**

Antilocapra Ord., Journ. de Phys., LXXXVII, 1818, p. 149. Type
Antilope americana Ord.

Dicranocerus! H. Smith, Griff. Anim. Kingd., IV, 1827, p. 169.

94. Antilocapra americana (Ord).

Antilope americana Ord, Guth. Geog., 2d. Am. ed., II, 1815, p. 292, desc. p. 308.

Antilocapra americana Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 43, pl. XVI. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 82. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 51. Zoöl. Ser.

PRONG-HORN.

I. Adult ♂ P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3 Juv. — P. No record. C. E. Akeley.

a. Antilocapra americana mexicana Merriam.

Antilocapra americana mexicana Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 31. Elliot, Mamm. Middle Amer. & W. Indies,

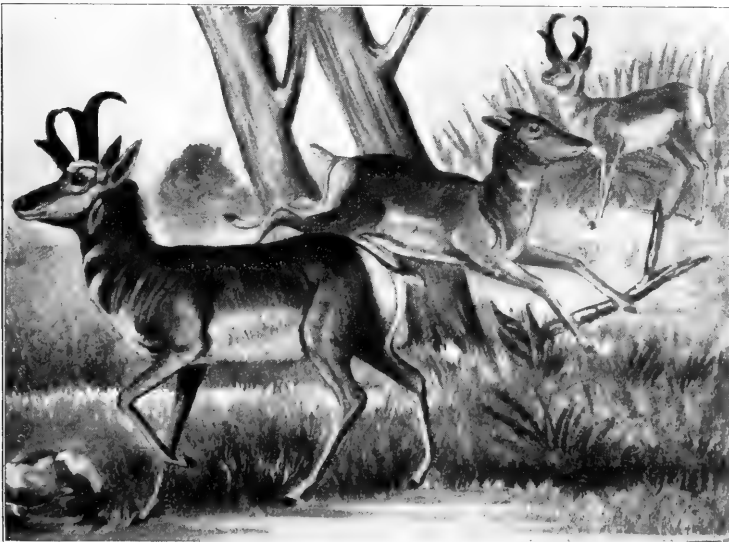


FIG. X. ANTILOCAPRA A. MEXICANA. MEXICAN PRONG-HORN.

F. C. M. Pub., IV, Pt. 1, 1904, p. 82, fig. xxv, pls. xxxii, xxxiii. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 51. Zool. Ser.

MEXICAN PRONG-HORN. *Berendo* in Mexico.

1-9. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

10-13. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

14. Juv. ♂ Coll. San Felipe, Gulf of California, Mexico. E. Heller.

Family VIII. **Bovidae. Sheep, Oxen, etc.**

Subfamily I. **Bubalidinæ.**

Genus 53. **Bubalis. Hartebeests.**

Bubalis Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 2, Tab. Gen., 1775. Type *Antilope buselaphus* Pallas.

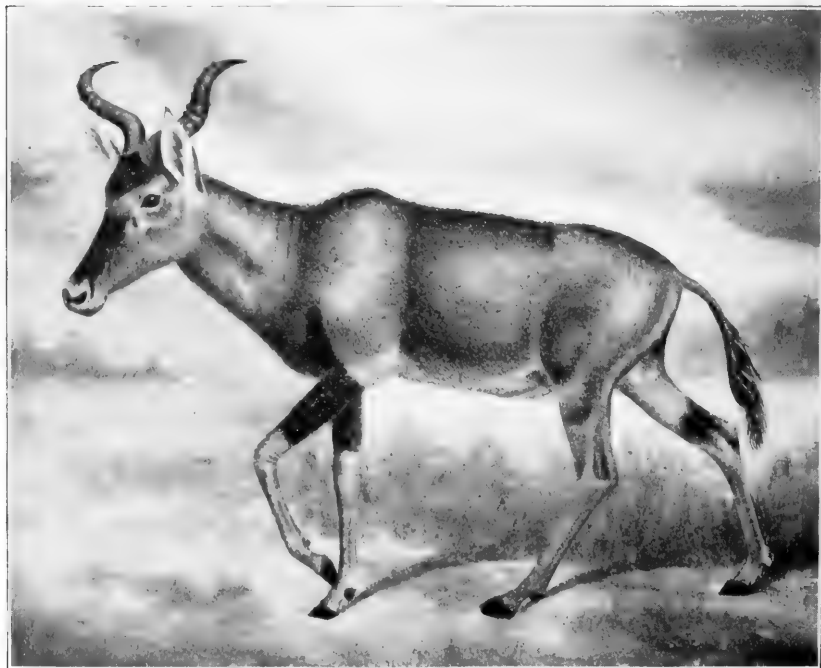


FIG. XI. **BUBALIS SWAYNII.** SWAYNE'S HARTEBEEST.

- Cerophorus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 74. (Part.)
Alcelaphus Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.
Damalis H. Smith, Griff. Anim. Kingd., IV, 1827, p. 343.
Acronotus H. Smith, Griff. Anim. Kingd., IV, 1827, p. 346.
Bubalus Ogilby, Proc. Zool. Soc., 1836, p. 139. (nec Frisch, 1775.)

95. *Bubalis swaynii* Sclater.

- Boselaphus caama* Sclat., Proc. Zool. Soc., 1884, p. 539. (nec G. Cuv.)
Alcelaphus caama Giglioli, Ann. Mus. Genov., VI, 1888, p. 19.
 (nec G. Cuv.)
Bubalis swaynei Sclat., Proc. Zool. Soc., 1892, p. 98, pl. v. Elliot,
 Pub. Field Columb. Mus., I, 1897, p. 112. Zool. Ser. Sclat.
 & Thos., Book Antel., I, 1894-1900, p. 21, pl. II.

SWAYNE'S HARTEBEEST. *Sig* in Somali.

- 1-4. Adult ♂ Coll. Toyo Plain, Somaliland, East Africa. D. G. Elliot.
 5. Adult ♂ Coll. Silo Plain, Somaliland, East Africa. D. G. Elliot.
 6-10. Adult ♀ Coll. Toyo Plain, Somaliland, East Africa. D. G. Elliot.
 11. Juv. ♀ Coll. Toyo Plain, Somaliland, East Africa. D. G. Elliot.

96. *Bubalis cokii* (Günther).

- Alcelaphus cokei* Günth., Ann. Mag. Nat. Hist., XIV, 1884, p. 426.
Alcelaphus lichtensteini Pagenst., J. B. Mus. Hamb., II, 1884,
 p. 40. (nec Peters.)
Alcelaphus cookei Lyd., Field, LXXVII, 1891, p. 858, fig.
Bubalis cokei Sclat. & Thos., Book Antel., I, 1894-1900, p. 27,
 pl. III.

COKE'S HARTEBEEST. *Kongoni* in Swahili.

1. Adult ♂ P. Kilimanjaro District, East Africa. F. J. Jackson.

97. *Bubalis caama* (G. Cuvier).

- Antelope dorcas* Thunb., Mém. Acad. St. Pétersb., III, 1811,
 p. 316. (nec Pallas.)
Antelope caama G. Cuv., Dict. Scien. Nat., II, 1816, p. 242.
Cerophorus caama Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.
Damalis caama H. Smith, Griff. Anim. Kingd. IV, 1827, p. 348.
Acronotus caama A. Smith, S. Afr. Quart. Journ., II, 1834, p. 221.
Bubalus caama A. Smith, Ill. Zool. S. Afr., 1840, pl. xxx.
Bubalis caama Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1844,
 p. 208. Sclat. & Thos., Book Antel., I, 1894-1900, p. 33, pl. IV.

CAPE HARTEBEEST. *Khama* of Bechuanas; *Ingama*, Makalaka; *Inhluzele*, Zulu.

1. Adult ♂ P. South Africa. E. Gerrard & Sons.

98. Bubalis jacksoni Thomas.

Antilope caama Schweinf., Herz. v. Afr., 1, 1873, p. 212. (nec G. Cuv.)

Acronotus caama Heugl., Reis. N. O.-Afr., 11, 1877, p. 123, pl. (nec G. Cuv.)

Bubalis jacksoni Thos., Ann. Mag. Nat. Hist., 6th Ser., 1X, 1892, p. 386. Sclat. & Thos., Book Antel., 1, 1894-1900, p. 39.

Alcelaphus jacksoni Lugard, E. Afr., 1, 1893, p. 532.

JACKSON'S HARTEBEEST. *Ngazi*, in Uganda; *Alwahlwong*, along White Nile.

1. Adult ♀ P. Mau Plateau, Masailand, Brit. E. Africa. F. J. Jackson.

99. Bubalis lichtensteini (Peters).

Antilope lichtensteini Peters, Mitth. Ges. Nat. Fr., 1849. *Id.* Säugeth. Mossamb., 1, 1852, p. 190, pls. XLIII, XLIV.

Boselaphus lichtensteini Kirk, Proc. Zool. Soc., 1864, p. 660.

Alcelaphus lichtensteini Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 44.

Alcelaphus caama Noack, Zool. Jahrb., 11, 1887, p. 208.

Bubalis leucoprymnus Matsch., Sitz. Ges. Nat. Freunde Berlin, 1892, p. 137.

Bubalis lichtensteini Sclat. & Thos., Book Antel., 1, 1894-1900, p. 45, pl. v.

LICHTENSTEIN'S HARTEBEEST.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

Genus 54. **Damaliscus.**

Damaliscus Sclat. & Thos., Book Antel., 1, Pt. 1, 1894, pp. 3, 51-91, figs. 7-12, pls. VI-X. Type *Antilope pygargus* Pallas.

Damalis Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 233. (nec H. Smith, 1827.)

100. Damaliscus lunatus (Burchell).

Antilope lunata Burch., Travels, 11, 1824, p. 334.

Damalis lunata H. Smith, Griff. Anim. Kingd., IV, 1827, p. 352. pl.

Damaliscus lunatus Sclat. & Thos., Book Antel., 1, 1894-1900,
p. 85, pl. x.

SASSABY.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
3. Adult ♂ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.
4. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.



FIG. XII. DAMALISCUS PYGARGUS. BONTBOK.

101. *Damaliscus pygargus* (Pallas).

Antilope dorcas Pall., Miscell. Zool., 1766, p. 6. (nec Linn.)

Antilope pygargus Pall., Spec. Zool., 1, 1767, p. 10.

Antilope grisea Bodd., Elench. Anim., 1785, p. 139.

Cemas pygargus Oken, Lehrb. Naturg., III, Pt. 2, 1816, p. 738.

Gazella pygarga Harris, Wild Anim. S. Afr., 1840, pl. xvii.

Damaliscus pygargus Sclat. & Thos., Book Antel., 1, 1894-1900, p. 73, pl. viii.

BONTEBOK.

1. Adult ♂ Pres. Cape Agulhas, S. Africa. J. D. Albertyn.

2. Adult ♀ Pres. Cape Agulhas, S. Africa. J. D. Albertyn.

102. *Damaliscus albifrons* (Burchell).

Antilope albifrons Burch., Travels, II, 1824, p. 335.

Damalis albifrons Gray, Ann. Mag. Nat. Hist., 1st. Ser., xviii, 1846, p. 233.

Damaliscus albifrons Sclat. & Thos., Book Antel., 1, 1894-1900, p. 79, pl. ix.

BLESSBOK.

1. Adult ♂ Pres. Orange Free State, S. Africa. S. African Museum, Cape Town, S. Africa.

103. *Damaliscus jimela* (Matschie).

Damalis senegalensis Sclat., Proc. Zool. Soc., 1886, p. 176. (nec Childr., nec Heugl.)

Damalis jimela Matsch., Sitzungsber. Ges. Nat. Freund. Berl., 1892, p. 135.

Alcelaphus senegalensis Lugard, E. Afr., 1, 1893, p. 532, pl. 2.

Damaliscus jimela Sclat. & Thos., Book Antel., 1, 1894-1900, p. 67.

TOPI.

1. Adult ♂ P. British East Africa. Rowland Ward & Co.

Genus 55. *Connochaetes*.

Connochaetes Licht., Mag. Ges. Naturf. Freund. Berl., VI, 1814, p. 152. Type *Antilope gnu* Gmelin.

Cemas Oken, Lehrb. Naturg., Zool., III, Pt. II, 1816, p. 727.

Catablepas Gray, Lond. Med. Repos., xv, 1821, p. 307.

Catablepas H. Smith, Griff. Anim. Kingd., IV, 1827, p. 366.

Gorgon Gray, Knowsl. Menag., 1850, p. 20, pl. XIX, fig. 2.

Butragus Blyth apud Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 43.

104. *Connochætes taurinus* (Burchell).

Antilope taurina Burch., Travels, II, 1824, p. 278.

Catoblepas taurinus H. Smith, Griff. Anim. Kingd., IV, 1827, p. 369.

Catoblepas gorgon H. Smith, Griff. Anim. Kingd., IV, 1827, p. 369.

Antilope gorgon Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 474.

Connochætes gorgon Gray, Cat. Ungul. Brit. Mus., 1852, p. 121.

Butragus corniculatus Blyth apud Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 43.

Connochætes taurinus Sclat. & Thos., Book Antel., I, 1894-1900, p. 95, pl. XI.

BRINDLED GNU.

1. Adult ♂ P. East Africa. E. Gerrard & Sons.

2. Adult ♀ P. East Africa. Rowland Ward & Co.

3. Adult ♂ Pres. South Africa. Ringling Bros.

105. *Connochætes albojubatus* (Thomas).

Connochætes taurinus albojubatus Thos., Ann. Mag. Nat. Hist., 6th Ser., IX, 1892, p. 388.

Connochætes taurina Lugard, E. Afr., I, 1893, p. 540, pl.



FIG. XIII. CONNOCHÆTES GNU. WHITE-TAILED GNU.

Connochætes albojubatus Sclat. & Thos., Book Antel., I, 1894-1900, p. 105.

WHITE-BEARDED GNU.

I. Adult ♀ P. Kilimanjaro District, E. Africa. F. J. Jackson.

106. *Connochætes gnu* (Zimmermann).

Bos gnu! Zimm., Spec. Zool. Geogr., 1777, p. 372.

Antilope gnu! Zimm., Geogr. Gesch., II, 1780, p. 102.

Antilope capensis Gatt., Brev. Zool., I, 1780, p. 80.

Antilope gnu Gmel., Syst. Nat., I, 1788, p. 189.

Cemas gnu Oken, Lehrb. Naturg., III, Pt. II, 1816, p. 728.

Catoblepas gnu H. Smith, Griff. Anim. Kingd., IV, 1827, p. 367.

Catoblepas operculatus Brookes, Cat. Mus., 1828, p. 64.

Connochætes gnu Sclat. & Thos., Book Antel., I, 1894-1900, p. III, pl. XII.

WHITE-TAILED GNU.

I. Adult ♂ P. South Africa. Rowland Ward & Co.

2. Adult ♀ P. South Africa. Rowland Ward & Co.

3. Juv. ♀ P. Orange River Colony. E. Gerrard & Sons.

Subfamily II. *Cephalolophinae*.

Genus 56. *Cephalolophus*. **Duikers.**

Cephalophus (sic) H. Smith, Griff. Anim. Kingd., v, 1827, p. 344.

Type *Antilope silvicultrix* Afzelius.

Cerophorus Blainv., Bull. Soc. Philom. Paris, 1816, p. 74. (Part.)

Sylvicapra Ogilby, Proc. Zool. Soc., 1836, p. 138.

Grimmia Laurill., d'Orbig. Dict. Univ. Hist. Nat., I, 1841, p. 623.

Cephalophorus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 162.

Guevei Gray, Cat. Ungul. Brit. Mus., 1852, p. 86.

Terpone Gray, Proc. Zool. Soc., 1871, p. 592.

Potamotragus Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 25.

107. *Cephalolophus dorsalis* Gray.

Cephalophus! dorsalis Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 165. Sclat. & Thos., Book Antel., I, 1894-1900, p.

155, pl. XIX, fig. 2.

Cephalophus! badius Gray, Cat. Ungul. Brit. Mus., 1852, p. 84.

Antilope (Cephalolophus) dorsalis Wagn., Schreb. Säugth., Suppl., V, 1855, p. 424.

Cephalophus! breviceps Gray, Proc. Zool. Soc., 1866, p. 202, pl. XX.

BAY DUIKER.

1. Adult ♂ P. West Africa. T. W. Franklin.

108. Cephalolophus melanorheus Gray.

Cephalolophus! melanorheus Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 167. Sclat. & Thos., Book Antel., I, 1894-1900, p. 185.

Antilope (Cephalolophus) melanorheus Wagn., Schreb. Säugth., Suppl., v, 1855, p. 428.

Cephalolophus! anchietæ Bocage, Proc. Zool. Soc., 1878, p. 743.

Cephalolophus! maxwelli Noack, Zool. Jahrb.-Abth. f. Syst., iv, 1889, p. 121.

BLACK-RUMPED DUIKER.

1. Adult ♂ Exch. Mayumba, Congo, West Africa. Mus. Hist. Nat. Paris.

2. Adult ♀ Exch. Bangui, Congo, West Africa. Mus. Hist. Nat. Paris.

a. Cephalolophus melanorheus sundevalli (Fitzinger).

Sylvicapra pygmæa var. Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1845, p. 321.

Cephalolophus! pygmæus sundevalli Fitzin., Sitzungsber. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIX, Pt. I, 1869, p. 166.

Cephalolophus! melanorheus sundevalli Sclat. & Thos., Book Antel., I, 1894-1900, p. 185.

SUNDEVALL'S BLACK-RUMPED DUIKER.

1. Adult ♂ P. West Africa. T. H. Franklin.

109. Cephalolophus coronatus Gray.

Antilope grimmia Pall., Misc. Zool., 1766, p. 12. (nec *Capra grimmia* Linn.)

Cerophorus (Cervicapra) grimmia Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. (nec. Linn.)

Cephalolophus! coronatus Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 266. Sclat. & Thos., Book Antel., I, 1894-1900, p. 195, pl. XXII, fig. 2.

Sylvicapra coronata Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1846, p. 191.

Grimmia grimmia Jent., Cat. Ost. Leyd. Mus., 1887, p. 138.

CROWNED DUIKER.

1. Adult ♂ P. Kalenque, West Africa, 2,500 feet altitude. E. Gerrard & Sons.

110. Cephalolophus abyssinicus Thomas.

Antilope madoqua Rüpp., Neue Wirbelth. Abyss., Säugeth., 1830, p. 22, pl. VII, fig. 2. (nec H. Smith.)

Cephalophus! madoqua Gray, Knowsl. Menag., 1850, p. 9. (nec H. Smith.)

Cephalophus! abyssinicus Thos., Proc. Zool. Soc., 1892, p. 427. Sclat. & Thos., Book Antel., I, 1894-1900, p. 199, pl. XXII, fig. 1.

ABYSSINIAN DUIKER. *Madoqua*, in Abyssinia; *Midáqua*, in Amharic.

1. Adult ♂ P. 35 miles west of Gondar, Abyssinia. P. H. G. Powell-Cotton.

2. Adult ♀ P. 35 miles west of Gondar, Abyssinia, P. H. G. Powell-Cotton.

111. *Cephalolophus grimmia* (Linnæus).

Capra grimmia Linn., Syst. Nat., I, 1758, p. 70.

Moschus grimmia Linn., Syst. Nat., I, 1766, p. 92.

Antilope mergens Desm., Nouv. Dict. Hist. Nat., II, 1816, p. 193.

Antilope (Cephalophus!) platous H. Smith, Griff. Anim. Kingd., IV, 1827, p. 260.

Antilope (Cephalophus!) burchelli H. Smith, Griff. Anim. Kingd., IV, 1827, p. 262.

Antilope (Cephalophus!) ptoox H. Smith, Griff. Anim. Kingd., IV, 1827, p. 265.

Cephalophus! mergens A. Smith, S. Afr. Quart. Journ., 1834, p. 215.

Cephalophus! platyotis Less., Hist. Nat. Mamm., Compl. Buff., X, 1836, p. 293.

Cephalophus! campbelliæ Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 164.

Antilope altifrons & *ocularis* Peters, Säugeth. Mozamb., 1852, p. 184, pls. XXXVII, XXXVIII, XXXIX, XLI, fig. 1, XLII, fig. 1.

Grimmia nictitans, *irrorata*, *splendidula*, *burchelli* & *campbelliæ* Gray, Proc. Zool. Soc., 1871, pp. 589, 592, fig. 1.

Cephalophus! grimmia flavescens Lorenz, Ann. K.-K. Nat. Hofm. Wien., IX, 1895, p. 60.

Cephalophus! grimmii Sclat. & Thos., Book Antel., I, 1894-1900, p. 203, pl. XXIII.

COMMON DUIKER.

1. Adult ♂ P. Cape Colony, S. Africa. Rowland Ward & Co.

112. *Cephalolophus monticola* (Thunberg).

Antilope monticola Thunb., Resa, II, 1789, p. 66.

Cephalophus! monticola Sclat. & Thos., Book Antel., I, 1894-1900, p. 191, pl. XXI, fig. 1.

BLUE DUIKER.

1. Adult ♂ P. Zululand, South Africa. Rowland Ward & Co.

Subfamily III. **Neotraginæ.**Genus 57. **Oreotragus.**

Oreotragus A. Smith, S. Afr. Quart. Journ., II, 1834, p. 212. Type
Antilope oreotragus Zimmermann.
Oritragus Glog., Hand-u. Hilfsb. Naturg., I, 1841, p. 154.

113. Oreotragus oreotragus (Zimmermann).

Antilope oreotragus Zimm., Geogr. Gesch., III, 1783, p. 369.
Antilope saltatrix Bodd., Elench. Anim., 1785, p. 141.
Antilope (Gazella) oreotragus Licht., Mag. Naturf. Freund. Berl.,
 VI, 1814, p. 175.
Cemas oreotragus Oken, Lehrb. Nat., III, Pt. 2, 1816, p. 743.
Antilope (Ourebia) oreotragus Laurill., Dict. Univ. Hist. Nat., I,
 1839, p. 622.
Calotragus saltatrix Temm., Esquis. Zool. Guin., 1853, p. 191.
Antilope klippspringer Desm., Nouv. Dict. Hist. Nat., XII, 1804,
 p. 390.
Antilope saltatrixoides Wagn., Schreb. Säugth., Suppl., v, 1855,
 p. 412;
Oreotragus saltator Sclat. & Thos., Book Antel., II, 1896-1897,
 p. 5, pl. xxv.

KLIPSPRINGER. *Alikut*, in Somali; *Sasa*, in Amharic.

1. Adult ♂ Exch. East Africa. British Museum.
2. Adult ♀ Exch. Sorgoti, Brit. Central Africa. Lord Dela-
 mere.

Genus 58. **Ourebia.**

Ourebia Laurill., Dict. Univ. Hist. Nat., I, 1841, p. 622. Type
Antilope ourebi Zimmermann.
Scopophorus Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846,
 p. 232.

114. Ourebia montana (Cretzschmar).

Antilope montana Cretzschm., Atl. Rüpp. Reise, Säugth., 1826,
 p. 11, pl. III.
Redunca montana A. Smith, S. Afr. Quart. Journ., II, 1834, p. 211.
Tragelaphus montanus Rüpp., Verz. Senck. Mus., 1842, p. 37.
Calotragus montanus Sundev., K. Sven. Vet.-Akad. Handl. Stockh.,
 1844, p. 193.

Scopophorus montanus Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 232.

Nanotragus montanus Brooke, Proc. Zool. Soc., 1872, p. 642.

Antilope madoqua Schweinf., Herz. von Afr., I, 1874, p. 266, fig.

Ourebia montana Sclat. & Thos., Book Antel., II, 1896-1897, p. 25.

ABYSSINIAN ORIBI. *Fiego*, in Amharic.

1. Adult ♂ P. 40 miles south of Lake Tana, Abyssinia. E. Gerrard & Sons.

2. Adult ♀ P. 40 miles south of Lake Tana, Abyssinia. E. Gerrard & Sons.

115. Ourebia haggardi (Thomas).

Nanotragus hastatus Jackson, Badmint. Big Game Shooting, I, 1894, p. 285. (nec Peters.)

Neotragus haggardi Thos., Ann. Mag. Nat. Hist., 6th Ser., xv, 1895, p. 187.

Ourebia haggardi Sclat. & Thos., Book Antel., II, 1896-1897, p. 29.

HAGGARD'S ORIBI. *Taya*, in Swahili.

1. Adult ♂ P. Mau Plateau, Masailand, E. Africa. F. J. Jackson.

2. Adult ♀ P. Mau Plateau, Masailand, E. Africa. F. J. Jackson.

Genus 59. **Rhaphiceras.**

Rhaphicerus! H. Smith, Griff. Anim. Kingd., v, 1827, p. 342. Type *Antilope campestris* Thunberg.

116. *Rhaphiceras campestris (Thunberg).

Capra grimmia Thunb., Resa, II, 1789, p. 8. (nec Linn.)

Antilope campestris Thunb., Mém. Acad. Sci. St. Pétersb., III, 1811, p. 313.

Rhaphicerus! campestris Sclat. & Thos., Book Antel., II, 1896-97, p. 41, pl. XXVII, fig. 1.

STEINBOK.

1. Adult ♂ P. British East Africa. Rowland Ward & Co.

Genus 60. **Madoqua.**

Madoqua Ogilby, Proc. Zool. Soc., 1837, p. 137. Type *Cerophorus saltiana* Blainville.

* Species not yet represented in the collection. Specimen ordered from London.

Neotragus H. Smith, Griff. Cuv., Anim. Kingd., iv, 1827, p. 269;
v, p. 349. Sundev., K. Sven. Vet.-Akad. Handl. Stockh.,
1846, p. 191.

117. *Madoqua saltiana* (Blainville).

Cerophorus (Cervicapra) saltiana Blainv., Bull. Soc. Philom.
Paris, 1816, p. 75.

Antilope saltiana Desm., Nouv. Dict. Hist. Nat., II, 1816, p. 192.

Antilope hemprichiana Ehr., Hempr. & Ehrenb. Symb. Physc.,
1833, text to pl. VII.

Neotragus saltiana Jard., Nat. Libr., Mamm., III, Pt. 1, 1835,
p. 229, pl. XXXIII.

Madoqua saltiana Ogilby, Proc. Zool. Soc., 1837, p. 137. Sclat.
& Thos., Book Antel., II, 1896-1897, p. 69, pl. xxx.

Calotragus saltianus Temm., Esquiss. Zool., 1853, p. 192.

SALT'S DIK-DIK. *Beni Israel* at Massowa.

1. Adult ♂ P. Eastern Abyssinia. T. H. Franklin.

118. *Madoqua swaynii* Thomas.

Neotragus saltianus Swayne, Proc. Zool. Soc., 1892, p. 307. (nec
Blainv.)

Madoqua swaynei Thos., Proc. Zool. Soc., 1894, p. 328. Elliot,
Pub. Field Columb. Mus., I, 1897, p. 113. Zool. Ser. Sclat.
& Thos., Book Antel., II, 1896-1897, p. 73.

SWAYNE'S DIK-DIK. *Guyu, Sakáro*, in Somali.

1-2. Adult ♂ Coll. Betteran, Somaliland, Brit. E. Africa. D. G.
Elliot.

3-4. Adult ♂ Coll. Deregodleh, Somaliland, Brit. E. Africa.
D. G. Elliot.

5-6. Adult ♂ Coll. Laferug, Somaliland, Brit. E. Africa. D. G.
Elliot.

7. Adult ♀ Coll. Toyo Plain, Somaliland, Brit. E. Africa.
D. G. Elliot.

8. Juv. ♀ Coll. Toyo Plain, Somaliland, Brit. E. Africa.
D. G. Elliot.

9. Juv. ♀ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G.
Elliot.

119. *Madoqua phillipsi* Thomas.

Neotragus saltianus Blyth, Jour. Asiat. Soc. Beng., xxiv, p. 297.
(nec Blainv.)

Madoqua phillipsi Thos., Proc. Zool. Soc., 1894, p. 327. Elliot,
Pub. Field Columb. Mus., I, 1897, p. 115. Zool. Ser. Sclat.
& Thos., Book Antel., II, 1896-1897, p. 75, pl. xxxi, fig. 2.

PHILLIPS'S DIK-DIK. *Gol-Ass, Sakaro*, in Somali.

1. Adult ♀ Coll. Adadleh, Somaliland, Brit. E. Africa. D. G. Elliot.
2. Adult ♂ Coll. Anouf Prairie, Somaliland, Brit. E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Marodijeh, Somaliland, Brit. E. Africa. D. G. Elliot.
4. Adult ♂ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G. Elliot.
- 5-6. Adult ♀ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G. Elliot.
7. Juv. ♀ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G. Elliot.
8. Adult ♂ Coll. Dagahbur Ogaden, East Africa. D. G. Elliot.
9. Adult ♀ Coll. Dagahbur Ogaden, East Africa. D. G. Elliot.

120. *Madoqua damarensis* (Günther).

Neotragus damarensis Günth., Proc. Zoöl. Soc., 1880, p. 20, fig. *Cephalophus! hemprichianus* Jent., Notes Leyd. Mus., ix, 1887, p. 172.

Madoqua damarensis Sclat. & Thos., Book Antel., II, 1896-1897, p. 79.

DAMARAN DIK-DIK.

1. Adult ♂ P. Angola, Africa. G. L. Bates.
2. Adult ♀ P. Angola, Africa. G. L. Bates.

121. *Madoqua kirkii* (Günther).

Neotragus kirkii Günth., Proc. Zoöl. Soc., 1880, p. 17.

Neotragus damarensis True, Proc. U. S. Nat. Mus., xv, 1892, p. 477, pl. LXXX. (nec Günth.)

Madoqua kirkii Thos., Proc. Zoöl. Soc., 1894, p. 328. Sclat. & Thos., Book Antel., II, 1896-1897, p. 83.

KIRK'S DIK-DIK.

1. Adult ♂ P. Kilimanjaro District, East Africa. F. J. Jackson.
2. Adult ♀ P. Kilimanjaro District, East Africa. F. J. Jackson.

122. *Madoqua guntheri* Thomas.

Neotragus kirkii Sclat., Proc. Zoöl. Soc., 1886, p. 504. (nec Günth.)

Madoqua guntheri Thos., Proc. Zoöl. Soc., 1894, p. 324. Elliot, Pub. Field Columb. Mus., I, 1897, p. 117. Zoöl. Ser. Sclat. & Thos., Book Antel., II, 1896-1897, p. 89, pl. xxxi, fig. 1.

GÜNTHER'S DIK-DIK. *Sakkaro*, *Gussuli*, in Ogaden.

1. Adult ♂ Coll. Dagahbur, Ogaden, E. Africa. D. G. Elliot.

123. *Madoqua cavendishi Thomas.

Madoqua cavendishi Thos., Proc. Zool. Soc., 1898, p. 278.

CAVENDISH'S DIK-DIK.

1. Adult ♀ P. British East Africa. Rowland Ward & Co.

Subfamily IV. **Cervicaprinæ.**

Genus 61. **Cobus.**

Kobus! A. SMITH, Ill. Zool. S. Afr., 1840, pl. xxviii. Type *Antilope ellipsiprymnus* Ogilby.

Kobus! Gray, List Spec. Mamm. Brit. Mus., 1843, p. 159.

Adenota Gray, List Osteol. Spec. Brit. Mus., 1847, p. 146.

Heleotragus Kirk, Proc. Zool. Soc., 1864, p. 657.

Hydrotragus Fitzin., Sitzungsab. Math.-Nat. C. K. Akad. Wiss. Wien, LIX, Pt. 1, 1866, p. 175.

Onotragus Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 17.

124. Cobus ellipsiprymnus (Ogilby).

Antilope ellipsiprymnus Ogilby, Proc. Zool. Soc., 1833, p. 47.

Aigocerus ellipsiprymnus Harris, Wild Anim. S. Afr., 1840, p. 71, pl. XIV.

Kobus! ellipsiprymnus A. Smith, Ill. Zool. S. Afr., Mamm., 1840, pls. xxviii, xxix.

Heleotragus ellipsiprymnus Kirk, Proc. Zool. Soc., 1864, p. 658.

Cobus ellipsiprymnus Sclat. & Thos., Book Antel., II, 1896-1897, p. 97, pl. xxxii.

COMMON WATERBUCK. *Balango*, in Somali, *Kuro*, in Swahili.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

3. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.

125. Cobus unctuosus (Laurillard).

Antilope unctuosus Laurill., Dict. Univ. Hist. Nat., I, 1817, p. 622.

Cervus sing-sing Bennett, Rep. Council. Zool. Soc., 1832, p. 5. (nomen nudum.)

Antilope koba Ogilby, Penny Encycl., I, 1834, p. 79. (nec *Erxleben*.)

*Not yet in collection, specimen ordered from London.

Kobus! sing-sing Gray, Ann. Mag. Nat. Hist., 1st Ser., xviii, 1846, p. 232.

Antilope defassa var. *senegalensis* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 435.

Cobus defassa Sclat., Proc. Zoöl. Soc., 1892, p. 471.

Cobus unctuosus Sclat., Proc. Zoöl. Soc., 1893, p. 727. Sclat. & Thos., Book Antel., II, 1896-1897, p. 105, pls. xxxiii, xxxiii.

THE SING-SING.

1. Adult ♂ P. West Africa. Rowland Ward & Co.



FIG. XIV. COBUS MARIA. MRS. GRAY'S WATERBUCK.

126. *Cobus penricii* Rothschild.

Cobus penricei Rothschild., Novitat. Zool., II, 1895, p. 32, pl. IV, fig. 1. Sclat. & Thos., Book Antel., II, 1896-1897, p. 113, pl. XXXV.

PENRICE'S WATERBUCK. *Kring-hart*, in Benguela.

1. Adult ♂ P. Chipungo River, Angola, W. Africa. G. W. Penrice.
2. Adult ♀ P. Chipungo River, Angola, W. Africa. G. W. Penrice.

127. *Cobus maria* Gray.

Kobus! maria Gray, Ann. Mag. Nat. Hist., 3rd Ser., IV, 1859, p. 296.

Kobus! megaceros! Marno, Reis. im Geb. d. blauen u. weissen Nil, 1874, p. 387.

Cobus maria Sclat. & Thos., Book Antel., II, 1896-1897, p. 121, pl. XXXVII.

MRS. GRAY'S WATERBUCK.

1. Adult ♂ P. White Nile, Africa. E. Gerrard & Sons.

128. *Cobus vardoni* (Livingstone).

Antelope vardoni Livingst., Miss. Travels, 1857, p. 256, pl. p. 71.

Heleotragus vardonii Kirk, Proc. Zool. Soc., 1864, p. 657.

Cobus vardoni Selous, Proc. Zool. Soc., 1881, p. 759, pl. LXV.

Sclat. & Thos., Book Antel., II, 1896-1897, p. 141, pl. XLI.

Eleotragus vardoni Huet, Bull. Soc. Acclim., 1887, p. 48.

Adenota vardoni Matschie, Säugeth. Deutsch. Ost-Afr., 1895, p. 126.

THE POKU.

1. Adult ♂ P. Lake Mweru, Brit. Centr. Africa. Rowland Ward & Co.
2. Adult ♀ P. Barotseland, Rhodesia, Brit. E. Africa. R. T. Coryndon.

129. *Cobus leucotis* (Lichtenstein & Peters).

Antelope leucotis Licht. & Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1853, p. 164.

Cobus leucotis Sclat. & Thos., Book Antel., II, 1896-1897, p. 127, pl. XXXVIII.

WHITE-EARED KOB.

1. Adult ♂ P. White Nile, Central Africa. Rowland Ward & Co.

Genus 62. **Cervicapra.**

Cervicapra Sparrm., K. Sven. Vet.-Akad. Handl. Stockh., I, 1780, p. 275. Type *Antilope cervicapra* Linnæus.

Redunca H. Smith, Griff. Anim. Kingd., v, 1827, p. 337.

Nagor Laurill., Dict. Univ. Hist. Nat., I, 1839, p. 621.

Eleotragus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 165.

130. Cervicapra arundinum (Boddaert).

Antilope arundinum Bodd., Elench. Anim., 1785, p. 141.

Antilope eleotragus Schreb., Säugth., IV, 1792, pl. CCLXVI. (1787.)

Antilope cærulescens Link, Beitr. Naturg., II, 1795, p. 99.

Antilope oreotragus Bechst., Syst. Uebers. vierf. Thier., I, 1799, p. 80. (nec Schreb.)

Antilope arundinacea Bechst., in Penn. Allgem. Uebers. vierf. Thier., I, 1799, p. 81.

Antilope cinerea Bechst., in Penn. Allgem. Uebers. vierf. Thier., II, 1800, p. 643.

Antilope isabellina Afzel., N. Act. Ups., VII, 1815, p. 250.

Cerophorus (*Cervicapra*) *eleotragus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.

Antilope oleotragus Desmoul., Dict. Class. Hist. Nat., I, 1822, p. 446.

Redunca eleotragus A. Smith, S. Afr. Quart. Journ., II, 1834, p. 210.

Eleotragus eleotragus Jent., Notes Leyd. Mus., IX, 1887, p. 172.

Cervicapra arundinum Flow. & Lydek., Mamm. Liv. & Ext., 1891, p. 340. Sclat. & Thos., Book Antel., II, 1896-1897, p. 157, pl. XLIII.

REEDBUCK.

1. Adult ♂ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.

2. Adult ♀ P. Beira District, Portuguese E. Africa. R. H. Ferress Stranack.

131. Cervicapra bohor (Rüppell).

Antilope redunca Rüpp., Neue Wirbelth. Abyss., 1835, p. 20, pl. VII, fig. 1. (nec Pall.)

Redunca bohor Rüpp., Verz. Senck. Mus., 1842, p. 38.

Antilope bohor Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 425.

Cervicapra bohor Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1844, p. 195. Sclat. & Thos., Book Antel., II, 1896-1897, p. 165.

Eleotragus bohor Temm., Esquiss. Zool., 1853, p. 191.

Eleotragus reduncus Heugl., Ant. u. Büff. N. O.-Afr., Nou. Act. Leop., xxx, Pt. 2, 1863, p. 11.

Antilope arundinacea Schweinf., Herz. von Afrika, II, 1874, p. 465.

BOHOR.

1. Adult ♂ P. Abyssinia. P. H. G. Powell-Cotton.

2. Adult ♀ P. Abyssinia. P. H. G. Powell-Cotton.

a. *Cervicapra redunca wardi* Thomas.

Cervicapra redunca wardi Thos., Ann. Mag. Nat. Hist., 7th Ser., VI, 1900, p. 303.

WARD'S REEDBUCK.

1. Adult ♂ P. Mau Plateau, Masailand, Brit. E. Africa. F. J. Jackson.

2. Adult ♀ P. Mau Plateau, Masailand, Brit. E. Africa. F. J. Jackson.

132. *Cervicapra chanleri* Rothschild.

Cervicapra chanleri Rothsch., Novitat. Zool., II, 1895, p. 53.

Sclat. & Thos., Book Antel., II, 1896-1897, p. 183.

CHANLER'S REEDBUCK.

1. Adult ♀ P. The Ravine, Uganda, East Africa. F. J. Jackson..

Genus 63. **Antilope.**

Antilope Pall., Misc. Zool., 1766, p. 1, pls. I, IV, fig. 3. Type——?

133. *Antilope cervicapra* (Linnæus).

Capra cervicapra Linn., Syst. Nat., I, 1758, p. 69.

Antilope cervicapra Pall., Misc. Zool., 1766, p. 9. Sclat. & Thos., Book Antel., III, 1897-1898, p. 5, pl. XLVII.

Antilope rupicapra Müll., Natur. Syst., Suppl., 1776, p. 56.

Cemas strepsiceros Oken, Lehrb. Nat., 1816, p. 732.

Cervicapra bezoartica Gray, List Spec. Mamm. Brit. Mus., 1843, p. 159.

BLACK-BUCK.

1. Juv. ♂ P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 64. **Æpyceras.**

Æpyceros! Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1845, p. 271. Type *Antilope melampus* Lichtenstein.

134. *Æpyceras melampus* (Lichtenstein).

Antilope melampus Licht., Reisen, II, 1812, p. 544, pl. IV.

Æpyceros! melampus Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1845, p. 271. Sclat. & Thos., Book Antel., III, 1897-1898, p. 17, pl. XLVIII.

Strepsiceros suara Matsch., Sitzungsab. Ges. Natur. Freund., 1892, p. 135.

Æpyceros! melampus johnstoni Thos., Proc. Zool. Soc., 1892, p. 553.

Æpyceros! melampus holubi Lorenz., Ann. Mus. Wien, IX, 1894, p. 62. Notizen.

PALLAS.

1. Adult ♂ P. Kilimanjaro District, E. Africa. F. J. Jackson.

135. *Æpyceras petersi* Bocage.

Æpyceros! petersi Bocage, Proc. Zool. Soc., 1878, p. 741. Sclat. & Thos., Book Antel., III, 1897-1898, p. 25, fig. (head & horns.)

Æpyceros! melampus Jent., Notes Leyd. Mus., IX, 1887, p. 173. (nec Lichtenstein.)

ANGOLAN PALLAS.

1. Adult ♂ P. Angola, Portuguese W. Africa. E. Gerrard & Sons.

2. Adult ♀ P. Angola, Portuguese W. Africa. E. Gerrard & Sons.

Genus 65. **Saiga.**

Saiga Gray, List Spec. Mamm. Brit. Mus., 1843, p. xxvi. Type *Capra tatarica* Linnæus.

Colus Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 419.

136. *Saiga tatarica* Linnæus.

Capra tatarica Linn., Syst. Nat., I, 1766, p. 97.

Antilope saiga Pall., Misc. Zool., 1766, p. 6.

Capra sayga Forst., Phil. Trans., LVII, 1767, p. 344.

Antilope scythica Pall., Spicil. Zool., 1767, p. 9.

Cemas colus Oken, Lehrb. Naturg., 1816, p. 730.

Saiga tatarica Gray, List Spec. Mamm. Brit. Mus., 1843, p. 160.

Sclat. & Thos., Book Antel., III, 1897-1898, p. 31, pl. XLIX.

THE SAIGA.

1. Adult ♂ P. Turkmenen Steppe, Asia. J. Friesser.

2. Adult ♀ P. Turkmenen Steppe, Asia. J. Friesser.

3. Juv. ♀ P. Turkmenen Steppe, Asia. J. Friesser.

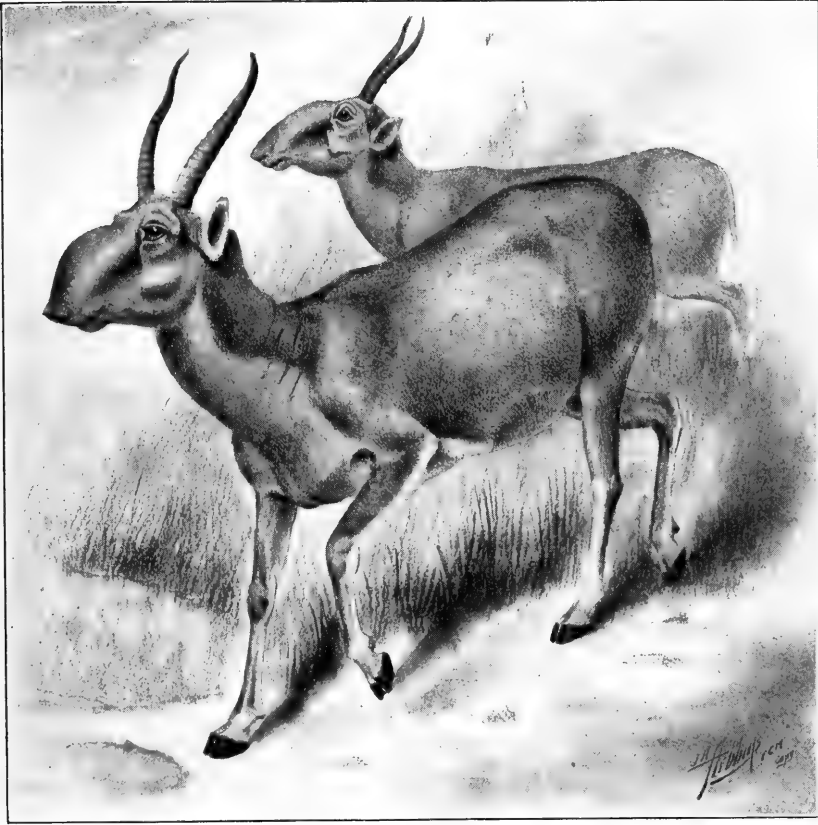


FIG. XV. SAIGA TATARICA. SAIGA ANTELOPE.

Genus 66. **Pantholops.**

Pantholops Hodgs., Proc. Zoöl. Soc., 1834, p. 81. Type *Antilope hodgsonii* Abel.

Kemas Gray, List Spec. Mamm. Brit. Mus., 1843, p. 157. (nec Ogilby, 1837.)

137. Pantholops hodgsoni (Abel).

Antilope hodgsonii Abel, Calc. Govern. Gazette, cf. Phil. Mag., LXVIII, 1826, p. 234.

Antilope chiru Less., Man. Mamm., 1827, p. 371.

Pantholops hodgsoni Hodgs., Proc. Zoöl. Soc., 1834, p. 80. Sclat. & Thos., Book Antel., III, 1897-1898, p. 45, pl. L.

Kemas hodgsoni Gray, List Spec. Mamm. Brit. Mus., 1843, p. 157.

THE CHIRU.

1. Adult ♂ P. Pebuk, Western Tibet, 17,500 feet elevation. P.
H. G. Powell-Cotton.



FIG. XVI. PANTHOLOPS HODGSONI. THE CHIRU.

Genus 67. **Antidorcas.**

Antidorcas Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1847, p. 271. Type *Antilope marsupialis* Zimmermann.

138. Antidorcas *marsupialis (Zimmermann).

Antilope marsupialis Zimm., Geogr. Gesch., II, 1780, p. 427.

Antilope euchore "Forst." Zimm., Geogr. Gesch., III, 1783, p. 269.

Antilope saccata Bodd., Elench. Anim., 1785, p. 142.

Capra pygargus Thunb., Resa, II, 1789, p. 28.

Antilope saltans Kerr, Anim. Kingd., 1792, p. 312.

Antilope saltatrix Link, Beitr. Naturg., 1795, p. 79. (nec Bodd.)

Antilope saliens Desm., Nouv. Dict. Hist. Nat., XXIV, 1804, p. 33, tabl.

Cerophorus (*Gazella*) *euchore* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.

Gazella euchore A. Smith, S. Afr. Quart. Journ., II, 1834, p. 191.

Antidorcas euchore Sclat. & Thos., Book Antel., III, 1897-1898, p. 55, pl. LI.

SPRINGBOK.

1. Adult ♂ P. Coroque River, Angola, W. Africa. J. W. Penrice.

2. Adult ♀ P. Angola, West Africa. Rowland Ward & Co.

Genus 68. **Gacella.**

Gacella Frisch, Das Nat.-Syst. Vierf. Thiere, in Tabellen, 2, Tab. Gen., 1775. Type ———?

Gazella Licht., Mag. Gesell. Naturf. Freund., Berlin, VI, 1814, pp. 152, 171.

Dorcas Gray, Lond. Med. Repos., xv, 1821, p. 307.

Dama Bennett, Trans. Zoöl. Soc., I, 1833, p. 7. Gray, Glean. Menag. & Aviary Knowsley Hall, 1850, p. 27, tab. XXIII, fig. 1.

Leptoceros Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 422.

Procapra Hodgs., Journ. Asiat. Soc. Beng., xv, 1846, p. 334.

Tragops Hodgs., Journ. Asiat. Soc. Beng., xvi, 1847, p. 695.

Tragopsis Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIX, 1869, p. 157.

**Marsupialis* was published by Zimmermann three years before he named the Springbok *euchore*, and unless the law of priority is of no effect, this animal must bear the name first given — *marsupialis*. If the said law can be ignored with impunity at the will of a writer, nomenclature will soon become chaotic.

Eudorcas Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIX, 1869, p. 159.

Korin Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 39.

Nanger Lataste, Act. Soc. Linn. Bord., xxxix, 1885, p. 173.

139. *Gacella picticaudata* (Hodgson).

Procopra picticaudata Hodg., Journ. Asiat. Soc. Beng., xv, 1846, p. 334, pl. II; xvi, 1847, p. 696.

Antilope picticaudata Wagn., Schreb. Säugth., Suppl., v, 1855, p. 408.

Gazella picticaudata Sclat. & Thos., Book Antel., III, 1897-1898, p. 71, pl. LII.

TIBETAN GAZELLE.

1. Adult ♂ P. Kalosh, Cashmir. P. H. G. Powell-Cotton.

a. *Gacella subgutturosa yarkandensis* Blanford.

Gazella subgutturosa yarkandensis Blanf., Second Yark. Miss., Mamm., 1879, p. 88, pl. 15. Sclat. & Thos., Book Antel., III, 1897-1898, p. 93 text.

TURKESTAN GAZELLE.

1. Adult ♂ Exch. near Lob Nor, E. Turkestan. Mus. Hist. Nat. Paris. Bartholot & Prince Henri d'Orleans.

2. Adult ♀ Exch. near Lob Nor, E. Turkestan. Mus. Hist. Nat. Paris. Bartholot & Prince Henri d'Orleans.

3. Adult — P. Yarkand, Asia. Rowland Ward & Co. R. Gordon Cotton.

140. *Gacella dorcas* (Linnæus).

Capra dorcas Linn., Syst. Nat., I, 1758, p. 69.

Antilope gazella Pall., Misc. Zool., 1766, p. 7.

Antilope kevella Pall., Misc. Zool., 1766, p. 7.

Antilope corinna Pall., Misc. Zool., 1766, p. 7.

Antilope dorcas Pall., Spic. Zool., I, 1767, p. 11.

Cemas dorcas Oken, Lehrb. Nat., III, Pt. 2, 1816, p. 737.

Cerophorus (Gazella) kevella Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.

Dorcas dorcas Gray, Lond. Med. Repos., xv, 1821, p. 307.

Gazella dorcas Ogilby, Proc. Zool. Soc., 1836, p. 137. Sclat. & Thos., Book Antel., III, 1897-1898, p. 99, pl. LVII.

Gazella dorcas sundevalli Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIX, Pt. 1, 1869, p. 159.

DORCAS GAZELLE.

1. Adult ♂ P. North Africa. T. W. Franklin.

2. Adult ♀ P. North Africa. T. W. Franklin.

141. *Gacella bennettii* (Sykes).

Antilope bennettii Sykes, Proc. Zool. Soc., 1831, p. 104.

Antilope arabica Elliot, Madr. Journ., x, 1839, p. 223.

Gazella christii Blyth, Journ. Asiat. Soc. Beng., xi, 1842, p. 452.

Gazella bennettii Gray, List Spec. Mamm. Brit. Mus., 1843, p. 161.

Sclat. & Thos., Book Antel., III, 1897-1898, p. 119, pl. LX.

Tragops bennettii Hodgs., Journ. Asiat. Soc. Beng., 1847, pp. II, XVI, 695.

Gazella hazenna Temm., Esquiss. Zool., 1853, p. 193.

Gazella fuscifrons Blanf., Proc. Zool. Soc., 1873, p. 317, fig.

INDIAN GAZELLE.

1. Adult ♂ P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

142. *Gacella spekii* Blyth.

Gazella cuvieri Blyth, Rep. Zool. Coll. Somali, 1860, p. 8. (nec Ogilby.)

Gazella spekei Blyth, Cat. Mamm. Mus. Asiat. Soc. Beng., 1863, p. 172. Elliot, Pub. Field Columb. Mus., I, 1897, p. 120. Zool. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 125, pl. LXI.

Gazella naso Sclat., Proc. Zool. Soc., 1886, p. 504, pl. LI.

SPEKE'S GAZELLE.

1. Adult ♂ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
4. Adult ♀ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
5. Juv. ♀ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
6. Adult ♀ Coll. Le Gud, Somaliland, E. Africa. D. G. Elliot.

143. *Gacella pelzelni* Kohl.

Gazella spekei Sclat., Proc. Zool. Soc., 1884, p. 540. (nec Blyth.)

Gazella pelzelni Kohl., Sitzungsab. K. Zool.-Bot. Gesch. Wien, 1886, p. 4. Elliot, Pub. Field Columb. Mus., I, 1897, p. 119. Zool. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 133, pl. LXII.

PELZELN'S GAZELLE.

- 1-3. Adult ♂ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
- 4-7. Adult ♀ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
8. Juv. ♀ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
9. Adult ♂ Coll. Deregoddleh, Somaliland, E. Africa. D. G. Elliot.
10. Adult ♀ Coll. Deregoddleh, Somaliland, E. Africa. D. G. Elliot.

11. Adult ♀ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
12. Adult ♂ P. Somaliland, E. Africa. E. Gerrard & Sons.
13. Adult ♀ P. Somaliland, E. Africa. E. Gerrard & Sons.

144. *Gacella thomsoni* Günther.

Gazella thomsoni Günth., Ann. Mag. Nat. Hist., 5th Ser., xiv, 1884, p. 427, fig. Sclat. & Thos., Book Antel., III, 1897-1898, p. 171, pl. LXVII.

THOMSON'S GAZELLE.

1. Adult ♂ P. Lake Naivasha, Brit. E. Africa. F. J. Jackson.

145. *Gacella granti* Brooke.

Antilope saemmerringii? Speke, Proc. Zoöl. Soc., 1863, p. 3. (nec Cretzsch.)

Gazella granti Brooke, Proc. Zoöl. Soc., 1872, p. 601, pl. xli. Sclat. & Thos., Book Antel., III, 1897-1898, p. 179, pl. LXIX.

GRANT'S GAZELLE.

1. Adult ♂ P. Kilimanjaro District, Brit. E. Africa. F. J. Jackson.
2. Adult ♀ Exch. Lake Rudolph, E. Africa. E. Dodson.

146. *Gacella soemmerringi* (Cretzschmar).

Antilope soemmerringii Cretzsch., Atl. Rüpp. Reise, 1826, p. 49, p. XIX.

Gazella soemmerringi Jard., Nat. Libr., vii, 1842, p. 215, pl. xxviii. Elliot, Pub. Field Columb. Mus., 1, 1897, p. 122. Zoöl. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 195, pl. LXX.

Antilope soemmerringi berberana Matsch., Sitzungsab. Ges. Natur. Freund. Berl., 1893, p. 65.

SOEMMERRING'S GAZELLE.

- 1-2. Adult ♂ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
4. Adult ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 5-6. Adult ♂ Coll. Hersi Barri, Ogaden, E. Africa. D. G. Elliot.
- 7-9. Adult ♀ Coll. Hersi Barri, Ogaden, E. Africa. D. G. Elliot.
- 10-14. Adult ♂ Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
15. Juv. ♂ Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.

16-19. Adult ♀ Coll. Silo Plain, Haud, Somaliland, E. Africa.
D. G. Elliot.

Genus 69. **Ammodorcas.**

Ammodorcas Thos., Proc. Zoöl. Soc., 1891, p. 207. Type *Cervicapra clarkei* Thomas.

147. Ammodorcas clarkii (Thomas).

Cervicapra clarkei Thos., Ann. Mag. Nat. Hist., 6th Ser., VII,
1891, p. 304.

Ammodorcas clarkei Thos., Proc. Zoöl. Soc., 1891, p. 207, pls. XXI,



FIG. XVII. AMMODORCAS CLARKII. DIBATAG.

xxii. Elliot, Pub. Field Columb. Mus., I, 1897, p. 124. Zoöl. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 219, pl. LXXIII.

DIBATAG.

- 1-2. Adult ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
3. Juv. ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 4-5. Adult ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
6. Juv. ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.

Genus 70. **Lithocranius.**

Lithocranius! Kohl, Ann. Mus. Wien, I, 1886, p. 79. Type *Gazella walleri* Brooke.

148. **Lithocranius walleri** (Brooke).

Gazella walleri Brooke, Proc. Zoöl. Soc., 1878, p. 929, pl. LVI.

Lithocranius! (*Gazella*) *walleri* Kohl, Ann. Mus. Wien, I, 1886, p. 79, pl. v, fig. 3, pl. vi, fig. 1.

Lithocranius walleri Thos., Proc. Zoöl. Soc., 1891, p. 207. Elliot. Pub. Field Columb. Mus., I, 1897, p. 126. Zoöl. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 229, pl. LXXIV.

* *Lithocranius sclateri* Neumann, Sitzungs. Ges. Naturf. Freund. Berl., 1899, p. 19. Sclat. & Thos., Book Antel., IV, 1899-1900, p. 228.

* Neumann (l. c.) has separated the Somali Gerenuk from those of other parts of East Africa on account, as he states, of its less red color, lack of black knee tufts, and larger horns. These do not seem to be characters of specific value, for in quite a large number of Gerenuk obtained by myself in Somaliland and Oga-den, there was found to be a great variation in the depth of the red coloring, especially on the back (some individuals being very dark and others comparatively light), while the horns were of all lengths and weights even among adult males. I should therefore regard depth of color and size of horns more the results of individual variation than as indicating any degree of a distinct rank. All of my Somali specimens, even the very young animals, had black at the knee, so this character? of Mr. Neumann is evidently found on all Gerenuk. In my paper on Somali mammals I mention a difference observed in the Gerenuk from the north and south sides of Toyo Plain, in the presence or absence, and its extent when present, of the conspicuous white stripe from the eyes to end of nose. But after comparing many specimens from various localities, the conclusion was apparently inevitable that there was only one species, and

GERENUK.

1. Adult ♂ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
4. Adult ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 5-7. Juv. ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
8. Juv. ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 9-11. Adult ♂ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
- 12-14. Adult ♀ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
15. Adult ♂ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
16. Juv. ♀ Coll. Haud, Somaliland, E. Africa. D. G. Elliot.

Genus 71. **Dorcotragus.**

Dorcotragus Noack, Zool. Anz., xvii, 1894, p. 202. Type *Oreotragus megalotis* Menges.

149. Dorcotragus megalotis (Menges).

Oreotragus megalotis Menges, Zool. Anz., xvii, 1894, p. 131.

Dorcotragus megalotis Noack, Zool. Anz., xvii, 1894, p. 202. Elliot, Pub. Field Columb. Mus., i, 1897, p. 135. Zool. Ser. Sclat. & Thos., Book Antel., iii, 1897-1898, p. 241, pl. lxxv.

BEIRA.

1. Adult ♀ Coll. Nasr Hablod, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
2. Juv. ♀ Coll. Nasr Hablod, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.

that it was subject to much individual variation in the depth of body coloring and also in the absence or presence to a changeable extent of facial stripes. With the experience thus gained in the field of the appearance of this antelope, I fail to find in Mr. Neumann's description any characters sufficient, in my opinion, to warrant a specific, or even subspecific, rank to *L. sclateri*, and have therefore included the name in the synonyms given above.

Subfamily V. ***Addaxinæ.**Genus 72. **Ozanna.**

Ozanna Reichenb., Vollst. Naturg. In-und Ausl., Säugeth., III, 1845, p. 126, Taf. xxxix, xl. Type *Antilope niger* Harris.

Egocerus (sic) Desm., Mamm., II, 1822, p. 475. (nec *Aegocerus*! Pall.)

Aigocerus! H. Smith, Griff. Anim. Kingd., v, 1827, p. 324.

Hippotragus Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1846, p. 196.

Ozanna Brehm, Thierl., III, 1880, p. 227. Syn.

150. Ozanna equina (Desmarest).

Antilope equina Desm., Nouv. Dict. Hist. Nat., xxiv, 1804, p. 4, Tabl. p. 32.

Capra aethiopica Schinz, Cuv. Thierr., I, 1821, p. 403.

Capra jubata Goldf., Schreb. Säugth., v, 1824, pl. 287c.

Antilope barbata H. Smith, Griff. Anim. Kingd., IV, 1827, p. 180; v, p. 325.

Antilope aurita H. Smith, Griff. Anim. Kingd., v, 1827, p. 325.

Antilope truteri Fisch., Syn. Mamm., 1829, p. 478.

Aegoceros! leucophæus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 158. (nec Pall.)

Hippotragus leucophæus Brehm, Thierl., III, 1880, p. 226.

Hippotragus equinus Sclat. & Thos., Book Antel., IV, 1899-1900, p. 13, pls. LXXVII, LXXVIII.

ROAN ANTELOPE.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

3-4. Adult ♂ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.

5. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.

151. Ozanna nigra (Harris).

Aigocerus! niger Harris, Proc. Zool. Soc., 1838, p. 2.

Antilope nigra Gerv., Dict. Scien. Nat., Suppl., I, 1840, p. 265.

Hippotragus niger Sundev., K. Sven. Vet.-Akad. Handl. Stockh.,

*Addax having priority over the other genera, gives the name to the subfamily.

1846, p. 197. Sclat. & Thos., Book Antel., IV, 1899-1900, p. 31, pls. LXXIX, LXXX.

Ægoceros! niger var. *kirki* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 35.

Ozanna nigra Brehm, Thierl., III, 1880, p. 227.

SABLE ANTELOPE.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

Genus 73. **Oryx.**

Oryx Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. Type *Capra gazella* (Linnæus).

152. **Oryx algazel** (Oken).

Antilope algazel Oken, Lehrb. Naturg., III, Pt. 2, 1816, p. 741.

Oryx leucoryx Auct. (nec. Pallas.)

SCIMITAR ORYX.

1. Adult ♂ P. W. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

153. **Oryx gazella** (Linnæus).

Capra gazella Linn., Syst. Nat., I, 1758, p. 69.

Antilope bezoartica Pall., Misc. Zool., 1766, p. 8. (nec Linn.)

Antilope reticornis Erxl., Syst. Regn. Anim., 1777, p. 272.

Antilope oryx Pall., Spic. Zool., fasc. XII, 1777, pp. 16, 61.

Antilope pasan Daud., Lacép. Buff., XIV, 1799, p. 182.

Oryx capensis Ogilby, Proc. Zool. Soc., 1836, p. 139.

Oryx gazella Gray, List Spec. Mamm. Brit. Mus., 1843, p. 156.

Sclat. & Thos., Book Antel., IV, 1899-1900, p. 57, pl. LXXXIII.

Oryx oryx Jent., Cat. Ost. Leyd. Mus., IX, 1887, p. 135.

GEMSBOK.

1. Adult ♀ P. Coroque River, Angola, West Africa. J. W. Penrice.

154. **Oryx beisa** (Rüppell).

Antilope beisa Rüpp., Neue Wirbelth. Abyss., 1835, p. 14, pl. v.

Oryx beisa Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1844,

p. 207. Elliot, Pub. Field Columb. Mus., I, 1897, p. 130.

Zool. Ser. Sclat. & Thos., Book Antel., IV, 1899-1900, p. 65,

pl. LXXXIV.

THE BEISA.

1. Adult ♂ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
- 3-4. Juv. ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
5. Adult ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
6. Adult ♂ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
7. Adult ♀ Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
8. Adult ♂ Coll. Haud, Somaliland, E. Africa. D. G. Elliot.
9. Juv. ♂ Coll. Haud, Somaliland, E. Africa. D. G. Elliot.
10. Adult ♀ Coll. Hersi Barri, Ogaden, E. Africa. D. G. Elliot.

Subfamily VI. **Tragelaphinæ.**Genus 74. **Boselaphus.**

Boselaphus Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. Type
Antilope tragocamelus Pallas.

Portax H. Smith, Griff. Anim. Kingd., v, 1827, p. 366.

Tragelaphus Ogilby, Proc. Zool. Soc., 1837, p. 138. (nec Blainville.)

155. Boselaphus tragocamelus (Pallas).

Antilope tragocamelus Pall., Misc. Zool., 1766, p. 5.

Antilope picta Pall., Spic. Zool., XII, 1777, p. 14.

Antilope albipes Erxl., Syst. Regn. Anim., 1777, p. 280.

Antilope leucopus Zimm., Spec. Zool. Geogr., 1777, p. 541.

Boselaphus albipes Desm., Nouv. Dict. Hist. Nat., II, 1816, p. 199, pl. xxxiii, fig. 2.

Portax tragelaphus Sundev., K. Sven. Vet.-Akad. Handl. Stockh., LXV, 1846, p. 198.

Boselaphus tragocamelus Sclat. & Thos., Book Antel., IV, 1899-1900, p. 93, pl. LXXXVII.

INDIAN ANTELOPE. NILGAI.

1. Juv. ♂ P. North India. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 75. **Tragelaphus.**

Tragelaphus Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. Type
Antilope sylvatica Sparrman.

156. Tragelaphus sylvaticus (Sparrman).

Antilope sylvatica Sparrm., Act. Holm, 1780, p. 197, pl. vii.

Tragelaphus sylvaticus Blainv., Bull. Soc. Philom. Paris, 1816,
p. 75. Sclat. & Thos., Book Antel., iv, 1899-1900, p. 117, pl.
xc, fig. 2.

Tragelaphus scriptus sylvaticus Thos., Proc. Zoöl. Soc., 1891,
p. 389.

CAPE BUSHBUCK.

1. Adult ♂ P. Mau Plateau (The Ravine), Masailand, E. Africa.
F. J. Jackson.
2. Adult ♀ P. Mau Plateau (The Ravine), Masailand, E. Africa.
F. J. Jackson.
3. Juv. ♂ P. Mau Plateau (The Ravine), Masailand, E. Africa.
F. J. Jackson.
4. Juv. ♀ P. Mau Plateau (The Ravine), Masailand, E. Africa.
F. J. Jackson.

a. Tragelaphus roualeyni fasciatus (Pocock).

Tragelaphus decula Swayne, Proc. Zoöl. Soc., 1894, p. 317. (nec
Rüpp.)

Tragelaphus scriptus fasciatus Pocock, Ann. Mag. Nat. Hist.,
7th Ser., v, 1900, p. 95.

Tragelaphus roualeyni fasciatus Sclat. & Thos., Book Antel., iv,
1899-1900, pp. 123, 128, pl. xc, fig. 1.

CUMMING'S STRIPED BUSHBUCK.

1. Adult ♂ P. Mashonaland, E. Africa. Ward's Nat. Scien.
Etabl., Rochester, N. Y.

Genus 76. **Boöcercus.**

Boocercus Thomas, Ann. Mag. Nat. Hist., 7th Ser., x, 1902, p. 309.

Type *Boocercus eurycerus isaaci* Thomas.

Euryceros! Gray, Glean. Menag. Aviary Knowsl. Hall., 1850,
p. 27, tab. xxiii, fig. 1. *Id.* Cat. Rumin. Mamm. Brit. Mus.,
1872, p. 47. (nec *Eurycerus* Illiger, 1807, Coleopt.)

a. **Boöcercus eurycerus isaaci* Thomas.

Boocercus eurycerus isaaci Thos., Ann. Mag. Nat. Hist., 7th Ser.,
x, 1902, p. 309. *Id.* Proc. Zool. Soc., 1902, p. 319.

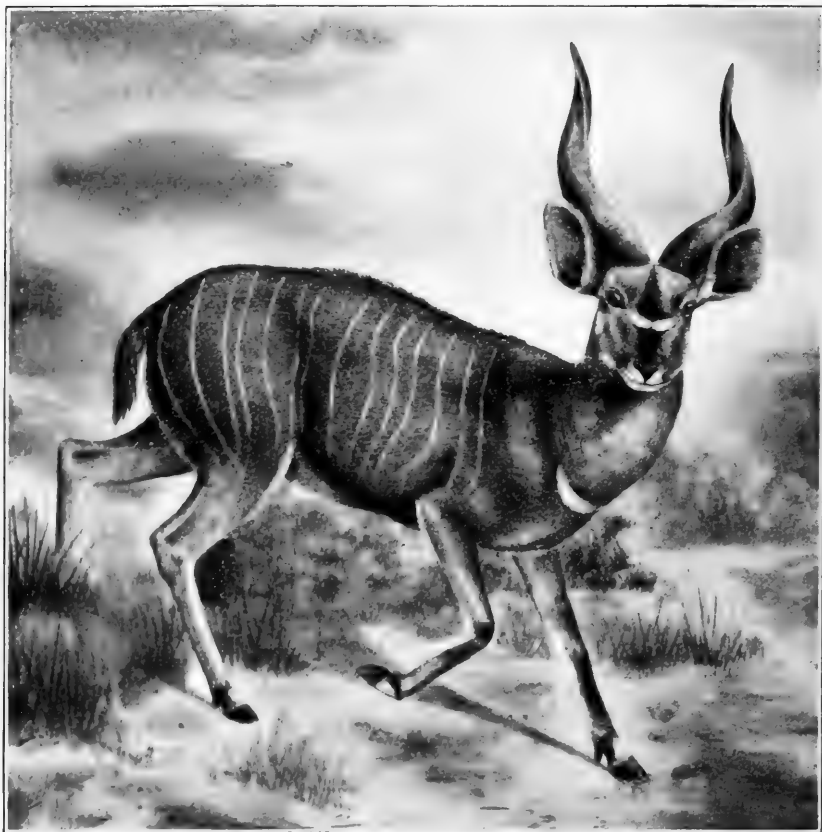


FIG. XVIII. BOÖCERCUS EURYCERUS. BONGO.

ISAAC'S BONGO.

1. Adult ♂ P. British East Africa. Rowland Ward & Co.

Genus 77. *Limnotragus*.

Limnotragus Sclat. & Thos., Book Antel., iv, 1899-1900, p. 149.

Type *Tragelaphus spekii* Sclater.

Hydrotragus Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 49.
(nec Fitzin., 1869.)

* Species not yet represented in the collection; specimen ordered from London.

157. *Limnotragus gratus* (Sclater).

Tragelaphus spekii Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1876, p. 484. (nec Sclat.)

Tragelaphus gratus Sclat., Proc. Zool. Soc., 1880, p. 452, pl. XLIV.

Limnotragus gratus Sclat. & Thos., Book Antel., IV, 1899-1900, p. 165, pl. xcv.



FIG. XIX. LIMNOTRAGUS GRATUS. CONGAN SITATUNGA.

CONGAN SITATUNGA.

1. Adult ♂ P. Gaboon, West Africa. E. Gerrard & Sons.

Genus 78. **Strepsiceros.**

Strepsiceros Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, Tab.

Gen., 1775. Rafin., Anal. Nat., 1815, p. 56. H. Smith, Griff.

Anim. Kingd., v, 1827, p. 365. Type *Antilope strepsiceros* Pallas.

Calliope Ogilby, Proc. Zool. Soc., 1837, p. 138.

158. Strepsiceros strepsiceros (Pallas).

Antilope strepsiceros Pall., Misc. Zool., 1766, p. 9.

Antilope tendal Cretzschm., Atl. Rupp. Reise, Säugeth., 1826, p. 22.

Antilope chora Fisch., Syn. Mamm., 1829, p. 475.

Strepsiceros strepsiceros Smuts, En. Mamm. Cap., 1832, p. 92.

Strepsiceros capensis A. Smith., S Afr. Quart. Journ., II, 1834,

p. 223. Sclat. & Thos., Book Antel., IV, 1899-1900, p. 173, pl. xcvi.

Calliope strepsiceros Ogilby, Proc. Zool. Soc., 1836, p. 138.

Strepsiceros kudu Gray, List Spec. Mamm. Brit. Mus., 1843, p. 155.

Elliot, Pub. Field Columb. Mus., I, 1897, p. 132. Zool. Ser.

Strepsiceros strepsiceros zambesiensis Lorenz, Ann. Mus. Wien,

IX, 1894, Notiz., p. 62.

GREATER KUDU.

1. Adult ♂ Coll. Jerato Pass, Golis Mountains, Somaliland, E. Africa. D. G. Elliot.

2. Adult ♂ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.

3. Juv. ♂ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.

4. Adult ♀ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.

159. Strepsiceros imberbis Blyth.

Strepsiceros kudu var. Gray, Proc. Zool. Soc., 1850, p. 143.

Strepsiceros imberbis Blyth, Proc. Zool. Soc., 1869, p. 55. Elliot,

Pub. Field Columb. Mus., I, 1897, p. 134. Zool. Ser. Sclat. &

Thos., Book Antel., IV, 1899-1900, p. 185, pl. xcvi.

Strepsiceros tendal Gray, Hand-L. Edent. Thick-s. & Rumin.

Mamm. Brit. Mus., 1873, p. 118. (nec Fischer.)

LESSER KUDU.

1. Juv. ♂ Coll. Leferug, Somaliland, E. Africa. D. G. Elliot.

2-3. Adult ♂ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.



FIG. XX. STREPSICEROS STREPSICEROS. GREATER KUDU.

4-7. Adult ♀ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.

8-9. Adult ♀ Coll. Hulleh, Somaliland, E. Africa. D. G. Elliot.

Genus 79. **Taurotragus.**

Taurotragus Wagn., Schreb. Säugth., Suppl., v, 1855, p. 439. Type *Antilope oryx* Pallas.

Oreas Desm., Mamm., II, 1822, p. 471. (nec Hübner, 1806, Lepidopt.)

Doratoceros! Lydek., Lond. Field, LXXVIII, 1891, p. 130.

a. *Taurotragus oryx livingstonii* (Sclater).

Oreas livingstonii Sclat., Proc. Zoöl. Soc., 1864, p. 105.

Taurotragus oreas livingstonii Sclat., Proc. Zoöl. Soc., 1893, p. 507.

Oreas canna livingstoni Jacks., Big Game Shoot., 1894, p. 285.

Taurotragus oryx livingstonii Sclat. & Thos., Book Antel., 1v, 1899-1900, p. 197, pl. xcix.

LIVINGSTONE'S ELAND.

1. Adult ♀ P. Mashonaland, E. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily VII. **Rupicaprinæ.**

Genus 80. **Rupicapra.**

Rupicapra Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 11, Tab.

Gen., 1775. Blainv., Bull. Soc. Philom. Paris., 1816, p. 75.

Type *Capra rupicapra* Linnæus.

Capella Keyserl. & Blas., Wirbelth. Europ., 1840, pp. 1v, 9, 28.

Aplocerus (sic) H. Smith, Griff. Anim. Kingd., v, 1827, p. 354.

160. Rupicapra rupicapra (Linnæus).

Capra rupicapra Linn., Syst. Nat., 1, 1758, p. 68.

Rupicapra tragus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 167. *Id.* Cat. Ungul. Brit. Mus., 1852, pl. xiv, figs. 2, 3, 4.

Id. Cat. Rumin. Mamm. Brit. Mus., 1872, p. 41.

CHAMOIS.

1. Adult ♂ P. Switzerland. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 81. **Nemorhædus.**

Næmorhedus! H. Smith, Griff. Anim. Kingd., v, 1827, p. 352. Type

Antilope sumatrensis Shaw.

Kemas! Ogilby, Proc. Zoöl. Soc., 1837, p. 138.

Hemitragus Van der Hoeven, Handb. Dierk., 2d ed., 11, 1855, p. 943. (nec Hodgson.)

Urotragus Gray, Ann. Mag. Nat. Hist., 4th Ser., VIII, 1871, p. 371.

161. Nemorhædus bubalinus (Hodgson).

Antilope bubalina Hodgs., Proc. Zoöl. Soc., 1832, p. 12.

Antilope thar Hodgs., Glean. Scien., III, 1832, p. 324.

Nemorhædus proclivus vel *thar* Hodgs., Jour. Asiat. Soc. Beng., x, 1841, p. 913.

Capricornis bubalina Gray, Proc. Zool. Soc., 1850, p. 135.

SEROW.

1. Adult ♂ P. Sivalik Hills, Northern India. J. W. Penrice.

162. *Nemorhædus milne-edwardsi* (David).

Capricornis milne-edwardsii David, Archiv. Mus. Paris, v, 1869, p. 10.

MILNE-EDWARDS'S MOUNTAIN GOAT.

1. Adult ♂ Exch. Ta-tsien-lou, Tibet. Mus. Hist. Nat. Paris. A. David.

163. *Nemorhædus griseus* (A. Milne-Edwards).

Nemorhedus! griseus A. Milne-Edw., Nouv. Archiv. Mus. Paris, VII, 1871, p. 93.

GRAY MOUNTAIN GOAT.

1. Adult ♂ Exch. Tibet. Mus. Hist. Nat. Paris.

164. *Nemorhædus cinereus* (A. Milne-Edwards).

Antelope (Nemorhedus!) cinerea A. Milne-Edw., Recherch. Mamm., 1874, p. 362, pls. 70, 71, figs. 1, 71A.

ASH-COLORED MOUNTAIN GOAT.

1. Adult ♀ Exch. Ta-tsien-Pon, China. Mus. Hist. Nat. Paris. R. P. Dejean.

165. *Nemorhædus goral* (Hardwicke).

Antelope goral Hardw., Trans. Linn. Soc. Lond., XIV, 1825, p. 518, pl. XIV.

Kemas! goral Ogilby, Proc. Zool. Soc., 1836, p. 138.

Nemorhedus! goral Horsf., Cat. Mamm. E. Ind. Mus., 1851, p. 168.

GORAL.

1. Adult ♂ P. Tibet. Rowland Ward & Co.

Genus 82. **Capra.**

Capra Linn., Syst. Nat., 1, 1758, p. 68. Type *Capra hircus* Linnæus.

Ibex Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 1, Tab. Gen., 1775. Hodgs., Journ. Asiat. Soc. Beng., XVI, 1847, p. 700.

Hircus Bodd., Elench. Anim., 1785, p. 147.

Aegoceros! Pall., Zoogr. Rosso-Asiat., 1, 1811, p. 224. (nec H. Smith.)

166. *Capra ibex* Linnæus.

Capra ibex Linn., Syst. Nat., 1, 1758, p. 68.

Aegoceros! ibex Pall., Zoogr. Rosso-Asiat., 1, 1811, p. 224.

Ibex alpinus Gray, List Osteol. Brit. Mus., 1847, p. 59.

Ibex europæa Hodg., Journ. Asiat. Soc. Beng., xvi, 1847, p. 700.

ALPINE IBEX.

1. Adult ♂ P. Switzerland. Ward's Nat. Scien. Establ., Rochester, N. Y.

167. *Capra nubiana* F. Cuvier.

Capra nubiana F. Cuv., Hist. Nat. Mamm., fasc. vii, 1825, pl. 397.

Capra sinaitica Hemp. & Ehrenb., Symb. Phys., Zool., i, 1828, pl. xviii.

Capra arabica Rüpp., Neue Wirbelth. Abyssin., 1835, p. 17.

Ægoceros! *beden* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 1303.

Capra mengesi Noack, Zool. Anz., 1896, p. 353.

ARABIAN IBEX.

1. Adult ♂ P. North Africa. J. F. G. Umlauff.

168. *Capra hircus* Linnæus.

Capra hircus Linn., Syst. Nat., i, 1758, p. 68.

Aegoceros! *hircus* Pall., Zoogr. Rosso-Asiat., i, 1811, p. 227.

Hircus ægagrus Gray, Cat. Ungul. Brit. Mus., 1852, p. 152. (nec Gmel.)

DOMESTIC GOAT.

1. Adult ♂ P. Angola, Africa. Deyrolle Fils.
2. Adult ♂ P. Congo, Africa. Deyrolle Fils.

169. *Capra ægagrus* Gmelin.

Antilope gazella Gmel., Syst. Nat., i, 1788, p. 190. (nec Linn.)

Capra ægagrus Gmel., Syst. Nat., i, 1788, p. 193.

Aegoceros! *ægagrus* Pall., Zoogr. Rosso-Asiat., i, 1811, p. 266.

Capra caucasica Gray, List Spec. Mamm. Brit. Mus., 1843, p. 167.

Ægoceros! *pictus* Erhardt, Faun. Cyclad., 1858, p. 29.

Hircus gazella Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 53.

PASANG.

1. Adult ♂ P. Elbruz Mountains, Persia. J. Friesser.

170. *Capra cylindricornis* (Blyth).

Ovis cylindricornis Blyth, Proc. Zool. Soc., 1840, p. 68.

Capra caucasica Keyserl. & Blas., Wirbelth. Europ., 1840, p. 28.

Ægoceros! *pallasi* Rouill., Bull. Soc. Mosc., xiv, 1841, p. 908, pl. xi.

Capra cylindricornis Büchn., Mém. Acad. St. Pétersb., xxxv, No. 8, 1887 p. 21.

EAST CAUCASIAN TUR.

1. Adult ♂ P. Central Caucasian Mountains. Rowland Ward & Co.



FIG. XXI. CAPRA CYLINDRICORNIS. EAST CAUCASIAN TUR.

171. Capra falconeri (Wagner).

Ægoceros! (*Capra*) *falconeri* Wagn., Münch. gelehrt. Anz., ix, 1839, p. 430.

Ægoceros! *falconeri* Wagn., Schreb. Säugth., Suppl., iv, 1844, p. 499.

Hircus megaceros! Adams, Proc. Zool. Soc., 1858, p. 525.

Hircus falconeri Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 53.

Capra falconeri Blanf., Faun. Brit. Ind., Mamm., 1888-91, p. 505, figs. 164, 165.

MARKHOR.

1. Adult ♂ P. Lufar, Kashmir. P. H. G. Powell-Cotton.

Genus 83. **Hemitragus.**

Hemitragus Hodgs., Calc. Jour. Nat. Hist., II, No. VI, 1841, p. 218.
Type *Capra quadrimammis* vel *jharal* Hodgson.

172. Hemitragus jemlahicus (H. Smith).

Capra jemlahica (misprinted in text) H. Smith, Griff. Anim. Kingd., IV, 1827, p. 308, pl. v, 1827, p. 358.

Capra jharal Hodg., Asiat. Res., 1833, XVIII, Pt. 2, p. 129, pl.

Capra quadrimammis Hodg., Journ. Asiat. Soc. Beng., IV, 1835, p. 710.

Hemitragus jemlaicus Blanford, Faun. Brit. India, 1888-91, p. 509, fig. 168. Lydekk., Wild Oxen, Sheep & Goats, 1898, p. 296, pl. XXVI.

HIMALAYAN TAHR.

1. Adult ♂ P. Chumba State, N. India. Rowland Ward & Co.

Genus 84. **Oreamnus.**

Oreamnos! Rafin., Amer. Month. Mag., II, 1817, p. 44. Type *Ovis montanus* Ord.

Haploceros! H. Smith, Griff. Anim. Kingd., v, 1827, p. 354.

173. Oreamnus montanus (Ord).

Ovis montanus Ord, Guth. Geog., 2d Amer. ed., II, 1815, p. 292.

Oreamnus montanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 44, pls. XVII, XVIII, XIX, XX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 52. Zool. Ser.

ROCKY MOUNTAIN GOAT.

1. Adult ♂ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♀ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.

3. Adult ♂ P. Montana. C. E. Akeley.

a. Oreamnus montanus columbianus Allen.

Oreamnos! montanus columbianus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 20.

Oreamnus montanus columbianus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 52. Zool. Ser.

COLUMBIAN MOUNTAIN GOAT.

1. Adult ♂ P. Between Bull River & Sheep Creek, British Columbia, Canada. Benj. Van Nostrand.
2. Adult ♀ P. Between Bull River & Sheep Creek, British Columbia, Canada. Benj. Van Nostrand.
3. Juv. — P. Between Bull River & Sheep Creek, British Columbia, Canada. Benj. Van Nostrand.

174. *Oreamnus kennedyi* Elliot.

Oreamnus kennedyi Elliot, Pub. Field Columb. Mus., III, 1900, p. 3. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 44, pls. xvii–xx. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 53. Zoöl Ser.

KENNEDY'S MOUNTAIN GOAT.

- 1–2. Adult ♂ P. Knik, Alaska. C. F. Periolat.
- 3–4. Adult ♀ P. Knik, Alaska. C. F. Periolat.
- 5–6. Juv. — P. Knik, Alaska. C. F. Periolat.

Genus 85. *Ovis*.

Ovis Linn., Syst. Nat., I, 1758, p. 70; I, 1766, p. 97. Type *Ovis aries* Linnæus.

175. *Ovis nahoar* Hodgson.

Ovis nayaur Hodgs., Asiat. Res., XVIII, Pt. 2, 1833, p. 135. (Part.)
Ovis nahoar Hodgs., Proc. Zoöl. Soc., 1834, p. 107.
Ovis burrhel Blyth, Proc. Zoöl. Soc., 1840, p. 67.
Ovis nahura Gray, List Spec. Mamm. Brit. Mus., 1843, p. 170.
Pseudois nahoar Hodgs., Journ. Asiat. Soc. Beng., xv, 1846, p. 343.
Musimon nahoar Gerv., Hist. Nat. Mamm., II, 1855, p. 191.
Pseudois burrhel Prezew, Cat. Zoöl. Coll., 1887, p. 16.

BHARAL; BLUE WILD SHEEP.

1. Adult ♂ P. Nepal, India. Ward's Nat. Scien. Establ., Rochester, N. Y.

176. *Ovis lervia* (Pallas).

Antilope lervia Pallas, Spicil. Zool., fasc. XII, 1777, p. 12.
Ovis tragelaphus Cuv., Règn. Anim., I, 1817, p. 268.
Ovis ornata I. Geoff., Desc. Egypt. Hist. Nat., II, 1833, p. 742, pl. VII.
Ovis (Ammotragus) tragelaphus Blyth, Proc. Zoöl. Soc., 1840, pp. 13, 76.

Musimon tragelaphus Gerv., Hist. Nat. Mamm., 1855, p. 192.
AOUDAD; ARUI.

1. Adult ♂ P. North Africa. J. F. G. Umlauff.

177. *Ovis cervina* Desmarest.

Ovis cervina Desm., Nouv. Dict. Hist. Nat., 1804, p. 5. Elliot.
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 46, pl. XXI.
Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
F. C. M. Pub., VI, 1905, p. 53. Zoöl. Ser.

Ovis canadensis Shaw, Nat. Misc., 1804? p. 610.

BIG-HORN; ROCKY MOUNTAIN SHEEP.

1. Adult ♂ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Montana. C. E. Akeley.
3. Adult — P. Montana. C. E. Akeley.

a. *Ovis cervina cremnobates* Elliot.

Ovis cervina cremnobates Elliot, Pub. Field Columb. Mus., III, 1903,
p. 239. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies,
F. C. M. Pub., IV, Pt. 1, 1904, p. 84, figs. XXVI, XXVII, pls.
XXXIV, XXXV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.
& W. Indies, F. C. M. Pub., VI, 1905, p. 54. Zoöl. Ser.

LOWER CALIFORNIA MOUNTAIN SHEEP.

1. Juv. ♂ Paratype. Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 2-12. Adult ♀ Type and paratypes. Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
13. Juv. ♀ Paratype. Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 14-15. Adult ♂ Pres. Lower California, Mexico. Kennedy & Dupee.
16. Juv. ♂ Pres. Lower California, Mexico. Kennedy & Dupee.
- 17-18. Adult ♀ Pres. Lower California, Mexico. Kennedy & Dupee.

178. *Ovis stonii* Allen.

Ovis stonei Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 111,
pls. II, III. Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., II,
1901, p. 47. Zoöl. Ser.

Ovis stonii Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,
F. C. M. Pub., VI, 1905, p. 54. Zoöl. Ser.

BLACK MOUNTAIN SHEEP.

- 1-3. Adult ♂ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.

- 4-6. Adult ♀ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.
7. Juv. ♀ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.
8. Juv. ♂ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.

179. *Ovis dalli* (Nelson).

Ovis montana dalli Nels., Proc. U. S. Nat. Mus., 1884, p. 12.

Ovis dalli Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 47.
Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
F. C. M. Pub., VI, 1905, p. 55. Zoöl. Ser.



FIG. XXII. OVIS-AMMON. ARGALI.

DALL'S MOUNTAIN SHEEP.

1. Adult ♂ Exch. Alaska. U. S. Nat. Museum.

a. *Ovis dalli kenaiensis* Allen.

Ovis dalli kenaiensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 145. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 55. Zool. Ser.

KENAI PENINSULA MOUNTAIN SHEEP.

- 1-2. Adult ♂ Pres. Kenai Peninsula, Alaska. V. S. Kennedy.
 3. Adult ♀ Pres. Kenai Peninsula, Alaska. V. S. Kennedy.
 4. Juv. ♂ Pres. Kenai Peninsula, Alaska. V. S. Kennedy.
 5-6. Juv. — Pres. Kenai Peninsula, Alaska. V. S. Kennedy.

180. *Ovis ammon* (Linnæus).

Capra ammon Linn., Syst. Nat., I, 1758, p. 70.

Ovis argali Pall., Spicil. Zool., fasc. XI, 1777-80, p. 20.

Ovis ammon Erxl., Syst. Regn. Anim., 1777, p. 250.

Aegoceros! argali Pall., Zoogr. Rosso-Asiat., I, 1811, p. 231.

Caprovis (*Argali*) *argali* Gray, Cat. Ungul. Brit. Mus., 1852, p. 174.

Musimon argali Gerv., Hist. Nat. Mamm., II, 1855, p. 191.

ARGALI.

1. Adult ♂ P. Thian-Shan Mountains, Baimgol, China. J. Friesser.

181. *Ovis musimon* (Pallas).

Aegoceros! musimon Pall., Zoogr. Rosso-Asiat., I, 1811, p. 230.

Ovis musimon! H. Smith, Griff. Anim. Kingd., IV, 1827, p. 322.

Capra musmon! Fisch., Syn. Mamm., 1829, p. 488.

Ovis musimon occidentalis Brandt & Ratzeb., Med. Zool., I, 1829, p. 55.

EUROPEAN MUFLON.

1. Adult ♂ P. Corsica. J. F. G. Umlauff.

Genus 86. **Ovibos.**

Ovibos Blainv., Bull. Soc. Philom. Paris, 1816, p. 76. Type *Bos moschatus* Zimmermann.

182. *Ovibos moschatus* (Zimmermann).

Bos moschatus Zimm., Geogr. Gesch., II, 1780, p. 86.

Ovibos moschatus Blainv., Bull. Soc. Philom. Paris, 1816, p. 76.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 48.

- pl. xxii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 56. Zoöl. Ser.
Ovibos pallantis H. Smith, Griff. Anim. Kingd., iv, 1827, p. 375.
Bos pallasi De Kay, Ann. N. Y. Lyc. Nat. Hist., ii, 1828, p. 29.
 (nec Baer, 1823.)
Bos canaliculatus Fisch., Mém. Acad. Mosc., iii, 1834, p. 287.
Bubalus moschatus Owen, Quart. Journ. Geol. Soc., xii, 1856,
 p. 124.

MUSK-OX.

1. Adult ♂ P. Great Slave Lake, Arctic America. Ward's Nat. Scien. Establ., Rochester, N. Y.
 - 2-3. Adult ♂ P. 160 miles north of Fort Resolution, Great Slave Lake, Arctic America. C. F. Periolat.
 - 4-5. Adult ♀ P. 160 miles north of Fort Resolution, Great Slave Lake, Arctic America. C. F. Periolat.
 6. Juv. ♀ P. 160 miles north of Fort Resolution, Great Slave Lake, Arctic America. C. F. Periolat.
- a. *Ovibos moschatus niphæcus* Elliot.
Ovibos moschatus niphæcus Elliot, Proc. Biol. Soc. Wash., xviii, 1905, p. 135. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 56. Zoöl. Ser.

BLACK MUSK-OX.

- 1-3. Adult ♂ Type & paratypes. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.
4. Juv. ♂ Paratype. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.
5. Adult ♀ Paratype. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.
- 6-7. Juv.—Paratypes. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.

Genus 87. **Bos.**

Bos Linn., Syst. Nat., i, 1758, p. 71. Type *Bos taurus* Linnæus.

183. Bos mindorensis (Steere).

- Anoa mindorensis* Steere, Proc. Zoöl. Soc., 1888, p. 413.
Probubalus mindorensis Steere, Proc. Zoöl. Soc., 1888, p. 413.
Bubalus mindorensis Heude, Mém. Hist. Nat. Emp. Chinois, ii, 1888, pp. 4, 50.
Bos mindorensis Lydekk., Roy. Nat. Hist., ii, 1894, p. 206.

TAMARAU; MINDORO BUFFALO.

1. Adult ♂ P. Island of Mindoro, Philippines. J. B. Steere.
2. Adult ♀ P. Island of Mindoro, Philippines. J. B. Steere.
3. Juv. ♀ P. Island of Mindoro, Philippines. J. B. Steere.

184. *Bos gaurus* H. Smith.

Bos gaurus H. Smith, Griff. Anim. Kingd., iv, 1827, p. 399.

Bos gour Hardw., Zoöl. Journ., iii, 1828, p. 233.

Bos gayæus Hardw., Zoöl. Journ., iii, 1828, p. 233.

Bibos subhemachus Hodgs., Journ. Asiat. Soc. Beng., vi, 1837, p. 499.

Bibos cavifrons Hodgs., Journ. Asiat. Soc. Beng., vi, 1837, p. 745.

Bibos asseel Horsf., Cat. E. Ind. Mus., 1851, p. 181.

Gavæus gaurus Blyth, Journ. Asiat. Soc. Beng., xxix, 1860, p. 282.

THE GAUR.

1. Adult ♂ P. S. W. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 88. **Bison.**

Bison H. Smith, Griff. Anim. Kingd., v, 1827, p. 373. Type *Bos bison* Linnæus.

185. *Bison bison* (Linnæus).

Bos bison Linn., Syst. Nat., i, 1758, p. 72.

Bos americanus Gmel., Syst. Nat., i, 1788, p. 204.

Bison americanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 49, pl. xxiii. Zoöl. Ser.

Bison bison Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, Suppl., p. 486. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 57. Zoöl. Ser.

AMERICAN BISON.

- 1-2. Adult ♂ Summer coat. P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♀ Summer coat. P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
4. Juv. ♂ Summer coat. P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
5. Adult ♂ Winter coat. P. Nebraska. Charles Payne.
6. Adult ♀ Exch. 'Corbyn Herd. Am. Mus. Nat. Hist. N. Y.

7. Juv. — Exch. Corbyn Herd. Am. Mus. Nat. Hist. N. Y.
 8. Adult ♂ P. Corbyn Herd. New Hampshire. W. Hart.
 9. Adult ♀ P. Corbyn Herd. New Hampshire. W. Hart.
 10-12. Juv. ♀ P. Corbyn Herd. New Hampshire. W. Hart.

SUBORDER II. PERISSODACTYLA.

Family IX. **Tapiridæ. Tapirs.**Genus 89. **Tapirus.**

Tapirus Briss., Regn. Anim., 1762, p. 81. Type *Tapirus tapirus*
 Brisson = *Hippopotamus terrestris* Linnæus, ex Brazil.

Tapir Blumenb., Handb. Naturg., I, 1779, p. 129.

Tapyra Liais, Climats, Géol., Faun. et Geogr., Botan. Brés.,
 1872, p. 397.

186. Tapirus indicus G. Cuvier.

Tapirus indicus G. Cuv., Tabl. Elém. Hist. Nat., 1798, p. 152.

Tapirus malayanus Raffles, Trans. Linn. Soc., XIII, 1822, p. 270.

Tapirus bicolor Wagn., Schreb. Säugth., Suppl., VI, 1835, p. 400.

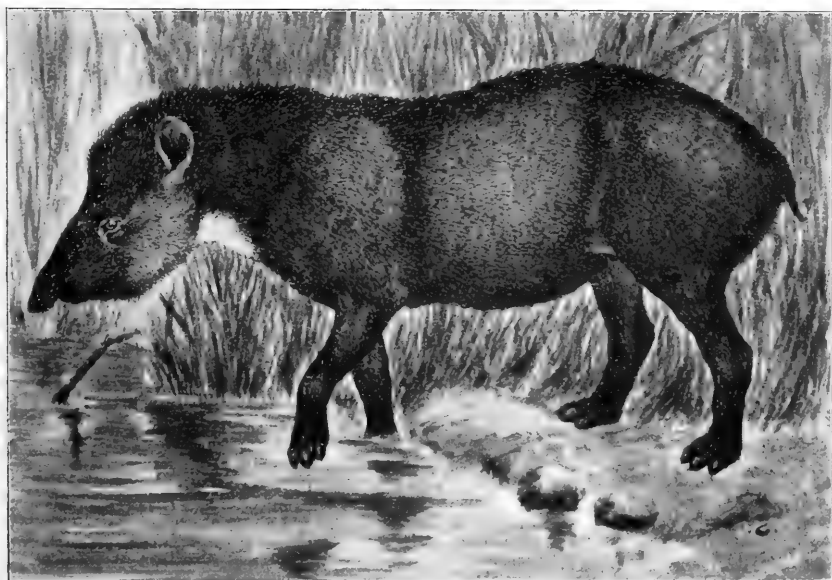


FIG. XXIII. TAPIRELLA DOWI. DOW'S TAPIR.

MALAY TAPIR.

1. Adult ♂ P. Sumatra. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 90. **Tapirella.**

Tapirella Palmer, Science, N. S., xvii, 1903, p. 873. Type *Elasmognathus bairdii* Gill.

187. **Tapirella bairdi** (Gill).

Elasmognathus bairdii Gill., Proc. Acad. Nat. Scien. Phil., 1865, p. 183.

Tapirella bairdi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 87, pls. xxxvi, xxxvii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 58. Zoöl. Ser.

BAIRD'S TAPIR.

- 1-2. Juv. Ad. ♂ Coll. Achotal, State of Vera Cruz, Mexico
Heller & Barber.

Family X. **Equidæ. Horses.**Genus 91. **Equus.**

Equus Linn., Syst. Nat., i, 1758, p. 73; i, 1766, p. 100. Type *Equus caballus* Linnæus.

a. *Equus burchelli transvaalensis* Ewart.

Equus burchelli transvaalensis Ewart, Veterinarian, lxx, 1897, p. 622, fig. 4. W. L. Sclat., Faun. S. Afr., i, 1900, p. 290.

TRANSSVAAL ZEBRA.

1. Adult ♂ P. Angola, West Africa. Ward's Nat. Scien. Estab., Rochester, N. Y.
2-5. Adult ♀ P. Laffleburg District, near Middleburg, Transvaal, S. Africa. E. Gerrard & Sons.
6-7. Juv. — P. Laffleburg District, near Middleburg, Transvaal, S. Africa. E. Gerrard & Sons.

b. *Equus burchelli selousi* Pocock.

Equus chapmani Lorenz, Ann. K. K. Hofm. Wien, ix, Notiz., 1894, p. 64. (nec Layard.)

Equus burchelli selousii Pocock, Ann. Mag. Nat. Hist., 6th Ser., xx, 1897, p. 45. W. L. Sclat., Faun. S. Afr., i, 1900, p. 291.

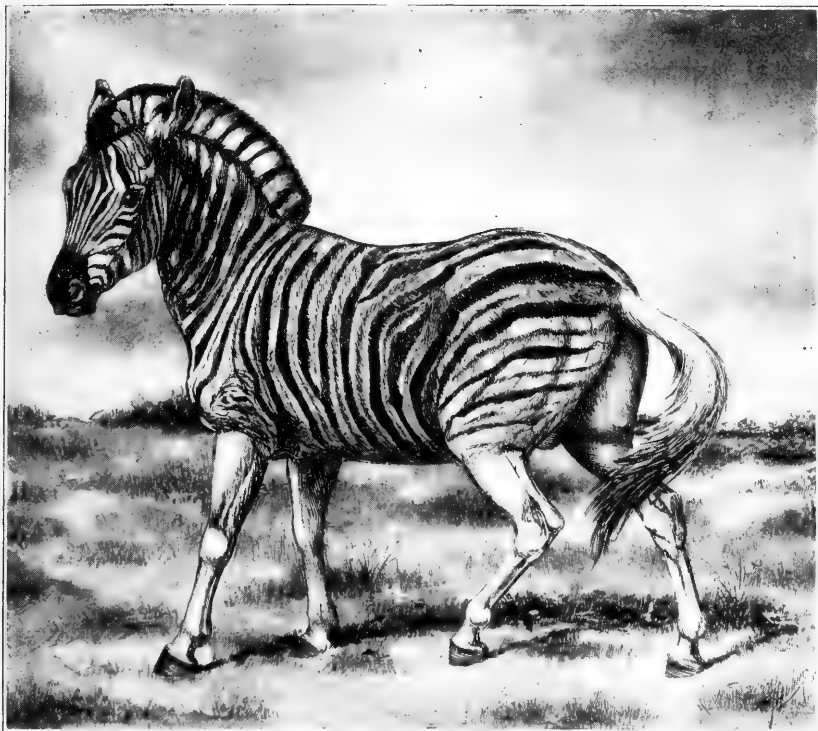


FIG. XXIV. EQUUS BURCHELLI. BURCHELL'S ZEBRA.

SELOUS'S ZEBRA.

1. Adult ♂ P. Hanyani River, Mashonaland, S. Africa. F. C. Selous.

c. *Equus burchelli crawshayi* de Winton.

Equus burchelli crawshayi de Winton, Ann. Mag. Nat. Hist., 6th Ser., XVII, 1896, p. 319. W. L. Sclat., Faun. S. Afr., I, 1900, p. 292.

CRAWSHAY'S ZEBRA.

1. Adult ♂ P. Beira, Portuguese E. Africa. McEwen & Cabot.

188. *Equus zebra* Linnæus.

Equus zebra Linn., Syst. Nat., I, 1758, p. 74.

Equus montanus Burch., Trav., I, 1822, p. 139.

Asinus zebra Gray, Zool. Journ., I, 1825, p. 248.

Hippotigris zebra H. Smith, Jard. Nat. Lib., XII, 1841, p. 324, pl. XXI.

Equus hartmannæ Matsch., Sitzungsab. Gesch. Naturf. Freunde, Berlin, 1898, p. 174.

MOUNTAIN ZEBRA.

1. Adult ♀ P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

189. *Equus grevyi* A. Milne-Edwards.

- Equus grevyi* A. Milne-Edwards, La Nature, x, 1882, p. 12, fig. 1.
 Pocock, Ann. Mag. Nat. Hist., 6th Ser., xx, 1897, p. 48.

GREY'S ZEBRA.

1. Adult ♂ P. Lake Rudolph, Africa. A. H. Neuman.
2. Adult ♀ P. Somaliland, E. Africa. E. Gerrard & Sons.

190. *Equus hemionus* Pallas.

- Equus hemionus* Pall., Nov. Comm. Acad. Petrop., xix, 1775,
 p. 394, pl. vii, et Auct.

Asinus equioides Hodgs., Journ. Asiat. Soc. Beng., xi, 1842, p. 287.

Asinus polyodon Hodgs., Calc. Journ. Nat. Hist., vii, 1847, p. 469,
 pl. vi.

Equus hemippus Is. Geoff., Comptes Rend., xli, 1855, p. 1214.

ASIATIC WILD ASS.

1. Adult ♂ P. Tibet. R. Gordon Cotton.

a. *Equus asinus somalicus* Sclater.

- Equus asinus somalicus* Sclat., Proc. Zool. Soc., 1884, p. 546,
 pl. l. Elliot, Pub. Field Columb. Mus., i, 1897, p. 139. Zool.
 Ser.

SOMALI WILD ASS. *Gumburi* in Somali.

1. Adult ♂ Coll. Las-dero Durban, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Las-dero Durban, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Haili, Somaliland, E. Africa. D. G. Elliot.
4. Juv. ♂ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.

Family XI. **Rhinocerotidæ. Rhinoceroses.**Genus 92. **Rhinoceros.**

Rhinoceros Linn., Syst. Nat., i, 1758, p. 56. Type *Rhinoceros unicornis* Linnæus.

Atelodus Pomel, Ann. Soc. Lit. Auvergne, xxvi, 1853, p. 114.

Rhinaster Gray, in Gerr. Cat. Bones Brit. Mus., 1862, p. 282.
 (nec Wagler, 1830.)

Ceratorhinus Gray, Proc. Zool. Soc., 1867, p. 1021.

Ceratotherium Gray, Proc. Zool. Soc., 1867, p. 1027.

Dihoplus Brandt, Mém. Acad. Imp. Scien. St. Pétersb., viime Sér., xxvi, 1878, p. 48.

Zalabis Cope, Bull. U. S. Geol. & Geogr. Surv. Terr., v, No. 2, 1879, p. 229.

191. *Rhinoceros sumatrensis* Cuvier.

Rhinoceros sumatrensis Cuvier, Régn. Anim., 1817, p. 240. Sclat., Proc. Zoöl. Soc., 1872, p. 790. *Id.* Trans. Zoöl. Soc., ix, p. 650, pl. xcvi.

Rhinoceros crossii Gray, Proc. Zoöl. Soc., 1854, p. 250, fig.

Ceratorhinus sumatranus Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 313.

SUMATRAN RHINOCEROS.

1. Adult ♂ P. Sumatra. F. W. Franklin.

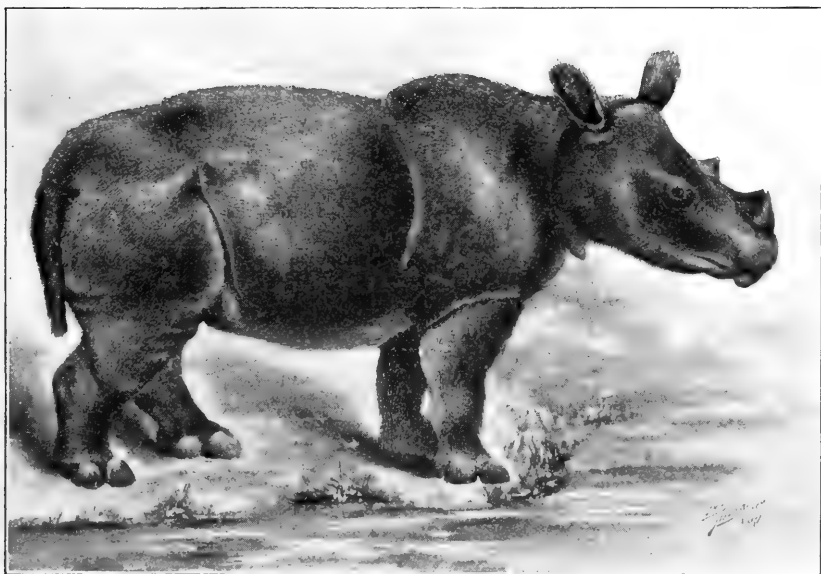


FIG. XXV. RHINOCEROS SUMATRENSIS. SUMATRAN RHINOCEROS.

SUBORDER III. HYRACOIDEA.

Family XII. Procaviidae.

Genus 93. Procavia.

Procavia Storr, Prodr. Meth. Mamm., 1780, p. 40, tab. B. Type *Cavia capensis* Pallas.

Hyrax Herm., Tab. Affinit. Anim., 1783, p. 115.

Euhyrax Gray, Ann. Mag. Nat. Hist., 4th Ser., 1, 1868, p. 46.

Dendrohyrax Gray, Ann. Mag. Nat. Hist., 4th Ser., 1, 1868, p. 48.

Heterohyrax Gray, Ann. Mag. Nat. Hist., 4th Ser., 1, 1868, p. 50.

192. *Procavia capensis* (Pallas).

Cavia capensis Pall., Misc. Zool., 1766, p. 30.

Hyrax semicircularis Gray, Cat. Carniv. Pachyderm. & Edent.

Mamm. Brit. Mus., 1869, p. 285.

Procavia capensis Thos., Proc. Zool. Soc., 1892, p. 60.

CAPE CONEY.

1. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Procavia brucei somalica Thomas.

Procavia brucei somalica Thos., Proc. Zool. Soc., 1892, p. 71.

Elliot, Pub. Field Columb. Mus., 1, 1897, p. 140. Zool. Ser.

SOMALI CONEY.

1. Adult ♂ Coll. Adadleh, Somaliland, E. Africa. D. G. Elliot.

SUBORDER IV. PROBOSCIDEA.

Family XIII. Elephantidæ. Elephants.

Genus 94. Elephas.

Elephas Linn., Syst. Nat., 1, 1758, p. 33. Type *Elephas maximus* Linnæus.

193. *Elephas maximus* Linnæus.

Elephas maximus Linn., Syst. Nat., 1, 1758, p. 33, ex Ceylon.

Elephas indicus Cuv., Règn. Anim., 1, 1817, p. 231.

Elephas sumatranus Temm., Coup-d'œil Poss. Néerland., 11, 1847,
p. 91.

INDIAN ELEPHANT.

1. Adult ♂ P. Southern India. W. Hornaday.
2. Juv. ♂ P. Southern India. W. Hornaday.

Order VI. **Rodentia. Rodents.**

SUBORDER I. SIMPLICIDENTATA

Family I. **Anomaluridæ.**

Subfamily I. **Anomalurinae.**

Genus 95. **Anomalurus.**

Anomalurus Waterh., Proc. Zoöl. Soc., 1842, p. 124. Type—*Anomalurus fraseri* Waterhouse.

194. Anomalurus pelii Temminck.

Anomalurus pelii Temm., Verhand. over de Nat. Geschied der Nederl. Bezitt., 1, 1845, p. 108.

PEL'S FLYING SQUIRREL.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

195. Anomalurus beecrofti Fraser.

Anomalurus beecrofti Fras., Proc. Zoöl. Soc., 1852, p. 17.

BEECROFT'S FLYING SQUIRREL.

1. Adult ♀ P. Benito River, W. Africa. G. L. Bates.

196. Anomalurus erythronotus A. Milne-Edwards.

Anomalurus erythronotus A. Milne-Edw., Compt. Rend., LXXXIX, 1879, p. 771.

RED-BACKED FLYING SQUIRREL.

1. Adult ♀ P. Benito River, West Africa. G. L. Bates.

Family II. **Sciuridæ. Squirrels, Chipmunks, etc.**

Subfamily I. [**Nannosciurinae.**

Genus 96. **Nannosciurus.**

Nannosciurus Trouess., Le Natural., II, No. 37, 1880, p. 292. Type *Sciurus melanotis* Müller & Schlegel.

197. Nannosciurus whiteheadi Thomas.

Sciurus whiteheadi Thos., Ann. Mag. Nat. Hist., 3rd Ser., xx 1867, p. 127. *Id.* Proc. Zoöl. Soc., 1889, p. 231, pl. xxiv.

WHITEHEAD'S PIGMY SQUIRREL.

1. Adult — Topotype. P. Kina Balu, Borneo. E. Gerrard & Sons. A. Everett.

Subfamily II. **Sciurinae.**Genus 97. **Protoxerus.**

Protoxerus F.-Major, Proc. Zool. Soc., 1893, p. 189, pl. VIII, figs. 7-8. Type *Sciurus stangeri* Waterhouse.

198. Protoxerus stangeri (Waterhouse).

Sciurus stangeri Waterh., Proc. Zool. Soc., 1842, p. 127.

Sciurus caniceps Temm., Esquiss. Zool., 1853, p. 127.

Macroxus stangeri Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p.

* *Sciurus nordhoffi* Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860, p. 363.

Sciurus eborivorus Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860 p. 363.

Sciurus subalbidus Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860 p. 365.

Sciurus temminckii Anders., Zool. Exped. W. Yunan, 1878, p. 229. (note.)

Heliosciurus stangeri Trouess., Cat. Mamm. Viv. quam Foss., Suppl., 1904, p. 301.

STANGER'S SQUIRREL.

1. Adult ♀ P. Benito River, W. Africa. E. Gerrard & Sons. G. L. Bates.

2. Adult — P. Batuga, Cameroons, W. Africa. C. W. McCleary.

Genus 98. **Xerus.**

Xerus Hempr. & Ehrenb., Symb. Phys., Mamm., 1, 1832, Sig. ee, pl. ix. Type *Sciurus (Xerus) brachyotus* Hemprich & Ehrenberg.

Geosciurus A. Smith, S. Afric. Quart. Jour., 11, No. 2, 1834, p. 128.

Atlantoxerus F.-Major, Proc. Zool. Soc., 1893, p. 189, pl. VIII, fig. 9, pl. IX, fig. 9.

*See de Winton, Ann. Mag. Nat. Hist., 7th Ser., 11, 1898, pp. 11, 12.

Subgenus A. *Xerus*.**199. *Xerus rutilus*** (Cretzschmar).

Sciurus rutilus Cretzschm., Rüpp. Atl. Reis. Nordl. Afr., 1, 1826,
p. 59.

Spermosciurus simplex Less., Hist. Nat. Mamm., v, 1836, p. 402.

Xerus dabagala Heugl., Peterm. Mittheil., 1861, p. 17.

Xerus flavus A. Milne-Edw., Rev. Mag. Zool., 1867, p. 229.

Xerus fuscus Huet, Nouv. Archiv. Mus. Paris, 2me Sér., 1880, pl.
vi, fig. 1.

Xerus rutilus Jent., Notes Leyd. Mus., iv, 1882, p. 41. Elliot,
Pub. Field Columb. Mus., 1, 1897, p. 141. Zoöl. Ser.

RED SPINY SQUIRREL.

1. Adult ♂ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.

2. Adult ♀ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.

3-4. Adult ♂ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.

5. Adult ♀ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.

Genus 99. ***Funisciurus***.

Funisciurus Trouess., Le Natural., 11, No. 37, 1880, p. 293. Type
Sciurus lemniscatus Leconte.

200. *Funisciurus mystax* de Winton.

Funisciurus mystax de Winton, Ann. Mag. Nat. Hist., 7th Ser.,
11, 1898, p. 9, fig. 3.

MYSTERIOUS SQUIRREL.

1. Adult ♀ P. Benito River, W. Africa. E. Gerrard & Sons.
G. L. Bates.

201. *Funisciurus pyrrhopus* (F. Cuvier).

Sciurus pyrrhopus! F. Cuv., Hist. Nat. Mamm., 1833, pl. 240.

Sciurus erythrogenys Waterh., Proc. Zoöl. Soc., 1842, p. 129. Fras.,
Zool. Typica, 1849, p. 25.

**Sciurus leucogenys* Waterh., Ann. Mag. Nat. Hist., 1st Ser., x,
1842, p. 202.

Sciurus rubripes Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860,
p. 366.

Macroxus pyrrhopus Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx,
1867, p. 330. (Part.)

*Said to be a good species. See Thos., Ann. Mag. Nat. Hist., 7th Ser., xi,
1903, p. 81.

Funambulus poensis Fitzin., Sitzungsab. K. Akad. Wiss. Wien, LVI, 1867, p. 34.

Heliosciurus pyrrhopus Trouess., Cat. Rong. viv. et foss., 1881, p. 83.

FERNANDO PO SQUIRREL.

1. Adult ♂ P. Benito River, W. Africa. G. L. Bates.

2. Adult — P. Island of Fernando Po? E. Gerrard & Sons.

202. *Funisciurus poensis* (A. Smith).

Sciurus poensis A. Smith, S. Afr. Quart. Journ., XI, 1839, p. 64.

Huet, Nouv. Archiv. Mus. Paris, 1880, p. 149, pl. VII, fig. 1.

Jent., Notes Leyd. Mus., IV, 1882, p. 28.

Sciurus olivaceus A. Milne-Edw., Rev. Zool., 1867, p. 228.

Macroxus poensis Gray, Ann. Mag. Nat. Hist., 3rd Ser., XX, 1867, p. 329.

Funambulus poensis Fitzin., Sitzungsab. K. Akad. Wiss. Wien, LVI, 1867, p. 34. (Part.)

Heliosciurus poensis Trouess., Cat. Rong. viv. et foss., 1881, p. 84.

BENITO RIVER SQUIRREL.

1. Adult ♂ P. Benito River, W. Africa. G. L. Bates.

203. *Funisciurus palliatus* (Peters).

Sciurus palliatus Peters, Monatsb. Preuss. Akad. Wiss. Berl., 1852, p. 273.

Sciurus ornatus Gray, Proc. Zool. Soc., 1864, p. 13, pl. 1.

Macroxus annulatus var. *freerei* Gray, Ann. Mag. Nat. Hist., 4th Ser., XII, 1873, p. 265.

Heliosciurus palliatus Trouess., Cat. Rong. viv. et foss., 1881, p. 83.

PROTECTED SQUIRREL.

1. Adult — P. Natal, S. Africa. E. Gerrard & Sons.

a. *Funisciurus lemniscatus isabella* (Gray).

Sciurus isabella Gray, Proc. Zool. Soc., 1862, p. 180.

Sciurus sharpii Gray, Ann. Mag. Nat. Hist., 4th Ser., XII, 1873, p. 265.

ISABELLA SQUIRREL.

1. Adult ♂ P. Cameroons, Africa. E. Gerrard & Sons.

Genus 100. **Funambulus.**

Funambulus Less., Illust. Zool., 1832, pl. 43, text. Type *Funambulus indicus* Lesson = *Sciurus palmarum* Linnæus.

Rhinosciurus Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xxv, 195.

Laria Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 276.

Palmista Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 279.

Eoxerus F.-Major, Proc. Zool. Soc., 1893, p. 189, pl. viii, figs. 5-6, 11-12, 16-18; pl. ix, figs. 5-6, 11-12, 16-18.

Subgenus A. *Rhinosciurus*.

204. *Funambulus laticaudatus* (Müller & Schlegel).

Sciurus laticaudatus Müll. & Schleg., Verhandl. over de Natuur. Gesch. etc., Zool., 1839, p. 100, pl. xv, figs. 1-3.

Rhinosciurus tupaoides (sic) Gray, Ann. Mag. Nat. Hist., 3rd. Ser., xx, 1867, p. 286.

LONG-NOSED SQUIRREL.

1. Adult — P. Braiung Hill, Lawas District, N. Borneo. E. Gerrard & Sons.

205. *Funambulus everetti* (Thomas).

Sciurus everetti Thos., Ann. Mag. Nat. Hist., 6th Ser., vi, 1890, p. 171.

EVERETT'S SQUIRREL.

1. Adult — P. Kina Balu, Borneo. E. Gerrard & Sons. A. Everett.

Subgenus B. *Laria*.

206. *Funambulus insignis* (F. Cuvier).

Sciurus insignis F. Cuv., Hist. Nat. Mamm., 1821, pl. 233.

CHIEF SQUIRREL.

1. Adult ♂ P. Sumatra. E. Gerrard & Sons.

a. Funambulus insignis diversus Thomas.

Funambulus insignis diversus Thos., Ann. Mag. Nat. Hist., 7th Ser., II, 1898, p. 248.

THOMAS'S CHIEF SQUIRREL.

1. Adult ♂ P. Gunong Mulu, Borneo. E. Gerrard & Sons. A. Everett.

a. Funambulus macclellandi formosanus (Bonhote).

Sciurus macclellandi formosanus Bonh., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 52.

STRIPED HIMALAYAN SQUIRREL.

1. Adult — P. Island of Formosa. E. Gerrard & Sons.

b. Funambulus maclellandi barbei (Blyth).

Sciurus barbei Blyth, Jour. Asiat. Soc. Beng., XVI, 1847, p. 875,
pl. XXXVI, fig. 3.

PALE-STRIPED SQUIRREL.

1. Adult ♀ P. Tavoy, British Burma. W. Davison.

Subgenus C. *Palmista*.

207. Funambulus palmarum (Linnæus).

Sciurus palmarum Linn., Syst. Nat., I, 1766, p. 86.

Sciurus penicillatus Leach, Zool. Misc., I, 1814, p. 6, pl. 1.

Funambulus indicus Less., Illust. Zool., 1832, pl. XLIII.

Sciurus brodei Blyth, Jour. Asiat. Soc. Beng., XVIII, 1849, p. 602.

Sciurus kelaarti Layd., Blyth, Jour. Asiat. Soc. Beng., XX, 1851,
p. 166.

PALM SQUIRREL.

1. Adult — P. Coimbatore, India. Ward's Nat. Scien. Establ.,
Rochester, N. Y.

Genus 101. **Ratufa**.

Ratufa Gray, Ann. Mag. Nat. Hist., 3rd Ser., XX, 1867, p. 273.

Type *Sciurus indicus* Erxleben.

Rukaia Gray, Ann. Mag. Nat. Hist., 3rd Ser., XX, 1867, p. 275.

Eosciurus Trouess., Le Natural., II, No. 37, 1880, p. 291.

Subgenus A. *Ratufa*.

208. Ratufa indica (Erxleben).

Sciurus indicus Erxl., Syst. Regn. Anim., 1777, p. 420.

Sciurus purpureus Zimm., Spec. Zool. Geogr. Quad., 1777, p. 518.

Sciurus elphinstonii Sykes, Proc. Zool. Soc., 1831, p. 103.

LARGE INDIAN SQUIRREL.

1. Adult — P. Neilgherry Hills, India. Ward's Nat. Scien.
Establ., Rochester, N. Y.

a. Ratufa indica maxima (Schreber).

Sciurus maximus Schreb., Säugth., IV, 1785, p. 784, pl. CCXVII
(1784).

Sciurus malabaricus Scop., Del. Flor. Faun. Insub., II, 1786, p. 85.

GREAT MALABAR SQUIRREL.

1. Adult — P. Central India. Ward's Nat. Scien. Establ.,
Rochester, N. Y.

Subgenus B. *Rukaia*.**209. Ratufa bicolor** (Sparrman).

Sciurus bicolor Sparrm., Götheb. Vet. Svensk. Handl., 1, 1778, p. 70.

GREAT MALAY SQUIRREL.

1. Adult — P. Sarawak, Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult — P. Sumatra. E. Gerrard & Sons.
4. Adult — P. Malacca. E. Gerrard & Sons. V. A. Brooke.

210. Ratufa ephippium (Müller).

Sciurus ephippium Müll., Tijd. voor Nat. Gesch., 1839, p. 147.

GREAT BORNEAN SQUIRREL.

1. Adult — P. Borneo. E. Gerrard & Sons. S. Müller.
- a. *Ratufa ephippium bunguranensis* (Thomas & Hartert).
Sciurus ephippium bunguranensis Thos. & Hart., Novitat. Zool., 1, 1894, p. 658.

BUNGURAN ISLAND SQUIRREL.

1. Adult — P. Bunguran Island. E. Gerrard & Sons.
- b. *Ratufa ephippium sandakanensis* Bonhote.
Sciurus bicolor ephippium Thos., Proc. Zoöl. Soc., 1889, p. 230.
 (nec Müller.)
Ratufa ephippium sandakanensis Bonh., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 497.

SANDAKAN GREAT SQUIRREL.

1. Adult — P. Paitan, N. Borneo. E. Gerrard & Sons. A. Everett.

211. Ratufa macrura (Pennant).

Sciurus macrourus Penn., Ind. Zoöl., Pt. 1, 1769, pl. 1.
Sciurus ceylonicus Erxl., Syst. Regn. Anim., 1777, p. 416.
Sciurus tennantii Layd., Blyth, Jour. Asiat. Soc. Beng., XVIII, 1849, p. 600.

GRIZZLED INDIAN SQUIRREL.

1. Adult — The *R. tennantii* black var. P. Ceylon. E. Gerrard & Sons.

Genus 102. **Sciurus. Tree Squirrels.**

Sciurus Linn., Syst. Nat., 1, 1758, p. 63. Type *Sciurus vulgaris* Linnaeus.

Guerlinguetus Gray, Lond. Med. Repos., xv, 1821, p. 304.

- Macroxus* F. Cuv., Dents des Mamm., 1823, p. 162, pl. 56.
Rheithrosciurus (sic) Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 272.
Callosciurus Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 277.
Baginia Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 279.
Erythrosciurus Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 285.
Neosciurus Trouess., Le Natural., II, 1880, p. 292.
Parasciurus Trouess., Le Natural., II, 1880, p. 292.
Echinosciurus Trouess., Le Natural., II, 1880, p. 292.
Tamiasciurus Trouess., Le Natural., II, 1880, p. 292.
Heliosciurus Trouess., Le Natural., II, 1880, p. 292.
Tunisciurus Trouess., Le Natural., II, 1880, p. 293.
Microsciurus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 332.
Hesperosciurus Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 27.
Otosciurus Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 28.
Aræosciurus Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 29.
Baiosciurus Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 31.

Subgenus A. *Baiosciurus*.

212. *Sciurus deppii* Peters.

- Sciurus deppii* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1863, p. 654.
Sciurus griseogena Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 429.
Sciurus tephrogaster Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 431.
Sciurus tæniurus Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 431.
Sciurus deppii Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 101, fig. 14. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 60. Zoöl. Ser.

DEPPE'S SQUIRREL.

1. Adult — Exch. Mexico. Am. Mus. Nat. Hist. N. Y.
 2-4. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
 5-6. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

Subgenus B. *Sciurus*.**213. *Sciurus vulgaris* Linnæus.**

Sciurus vulgaris Linn., Syst. Nat., 1, 1758, p. 63.

Sciurus italicus Bonap., Faun. Ital., 1838, fasc. 23, pl.

Sciurus europæus Gray, List Spec. Mamm. Brit. Mus., 1843, p.

139.

EUROPEAN SQUIRREL.

1. Adult ♀ P. Upsala, Sweden. J. A. Loring.
2. Adult ♂ P. Upsala, Sweden. J. A. Loring.
- 3-4. Adult ♂ P. Meiringen, Switzerland. J. A. Loring.
5. Adult ♀ P. Meiringen, Switzerland. J. A. Loring.
6. Adult ♂ P. Brunig, Switzerland. J. A. Loring.
7. Adult ♀ P. Brunig, Switzerland. J. A. Loring.
8. Adult — P. France. Ward's Nat. Scien. Establ., Rochester, N. Y.

214. *Sciurus lis* Temminck.

Sciurus lis Temm., Faun. Japon., 1842, p. 45, pl. XII, figs. 1-4.

Jent., Notes Leyd. Mus., v, 1883, p. 115.

JAPANESE SQUIRREL.

1. Adult ♂ P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

215. *Sciurus rufobrachiatus* Waterhouse.

Sciurus rufobrachiatus Waterh., Proc. Zool. Soc., 1842, p. 128.

Sciurus maculatus Temm., Esquiss. Zool., 1re Part., 1853, p. 130.

Sciurus aubryi A. Milne-Edw., Rev. Mag. Zool., 1867, p. 228.

Macròxus rufobrachiatus Gray, Ann. Mag. Nat. Hist., 3rd. Ser.,
xx, 1867, p. 329.

Funambulus rufobrachium Fitzin., Sitzungsab. K. Akad. Wissen.
Wien, 1867, p. 33.

RED-ARM SQUIRREL.

1. Adult ♂ P. Benito River, West Africa. E. Gerrard & Sons.
G. L. Bates.

216. *Sciurus punctatus* Temminck.

Sciurus punctatus Temm., Esquiss. Zool., 1853, p. 138. Jent.,
Notes Leyd. Mus., iv, 1882, p. 21.

Sciurus rufobrachiatus Huet, Nouv. Archiv. Mus. Hist. Nat.
Paris, 1880, p. 144. (Part.)

SPOTTED SQUIRREL.

1. Adult — P. West Africa. E. Gerrard & Sons.

Subgenus C. **Macroxus.***a. Sciurus erythræus punctatissimus* (Gray).

Macroxus punctatissimus Gray, Ann. Mag. Nat. Hist., 3rd Ser.
XX, 1867, p. 283.

GRAY'S SQUIRREL.

1. Adult — P. S. India. E. Gerrard & Sons.

217. Sciurus rubriventer Müller & Schlegel.

Sciurus rubriventer (Forst.) Müll. & Schleg., Temm. Verhandl.
over de Natuur. Ges. Nederl., 1839-1844, p. 86. Jent., Notes
Leyd. Mus., v, 1883, p. 128.

RED-BELLIED SQUIRREL.

1. Adult ♂ P. Tannya, Celebes. E. Gerrard & Sons.

218. Sciurus castaneiventris Gray.

Sciurus castaneiventris Gray, Ann. Mag. Nat. Hist., 1st Ser., x,
1842, p. 263.

Sciurus griseopectus Blyth, Jour. Asiat. Soc. Beng., xvi, 1847,
p. 873.

Sciurus erythræus Swinh., Proc. Zool. Soc., 1862, p. 357. (Part.)

CHESTNUT-BELLIED SQUIRREL.

1. Adult — P. China. E. Gerrard & Sons.

a. Sciurus castaneiventris ningpoensis Bonhote.

Sciurus castaneiventris ningpoensis Bonhote, Ann. Mag. Nat.
Hist., 7th Ser., vii, 1901, p. 163.

NINGPO VINOUS-BELLIED SQUIRREL.

1. Adult ♀ P. Ningpo, China. E. Gerrard & Sons.

219. Sciurus flavimanus Is. Geoffroy.

Sciurus flavimanus Is. Geoffroy, Mag. Zool., 1832, p. 1.

YELLOW-HANDED SQUIRREL.

1. Adult ♂ P. Kan Raryit, Brit. Burma. E. Gerrard & Sons.
T. Darling, Jr.

220. Sciurus hippurus Is. Geoffroy.

Sciurus hippurus I. Geoff., Étud. Zool., i, 1832, pl. 6. Jent.,
Notes Leyd. Mus., v, 1883, p. 118.

Sciurus rufogaster Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842,
p. 263.

HEAVY-TAILED SQUIRREL.

1. Adult ♀ P. Baram, Borneo. E. Gerrard & Sons. A. Ev-
erett.

a. Sciurus hippurus grayi Bonhote.

Sciurus hippurus grayi Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 171, (note).

GRAY'S BORNEAN SQUIRREL.

1. Adult ♂ P. Lawas District, Borneo. E. Gerrard & Sons. A. Everett.

221. *Sciurus pryeri* Thomas.

Sciurus pryeri Thos., Ann. Mag. Nat. Hist., 6th Ser., x, 1892, p. 214.

PRYER'S SQUIRREL.

1. Adult — P. Bongon, Borneo. E. Gerrard & Sons. A. Everett.

222. *Sciurus vittatus* Raffles.

Sciurus vittatus Raffles, Trans. Linn. Soc., XIII, 1822, p. 259.

Sciurus bivittatus Desm., Mamm., Suppl., 1822, p. 543.

Macroxus vittatus F. Cuv., Hist. Nat. Mamm., 1824, pl. CCXXXIV.

Macroxus toupai Less., Man. Mamm., 1827, p. 238.

Sciurus badging Kerr, Thos., Proc. Zool. Soc., 1886, p. 76.

**Sciurus notatus* Bodd., Thos., Proc. Zool. Soc., 1889, p. 231. (Part.)

Sciurus notatus miniatus Miller, Proc. Wash. Acad. Scien., II, 1900, p. 79.

Sciurus vittatus typicus Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 447.

STRIPED SQUIRREL.

1. Adult — P. Sumatra. E. Gerrard & Sons.
2. Adult ♂ P. Malacca. E. Gerrard & Sons.
3. Adult ♂ P. Malacca. E. Gerrard & Sons. A. R. Wallace.
4. Adult — P. Malacca. Ward's Nat. Scien. Establ., Rochester, N. Y.

223. *Sciurus nigrivittatus* Horsfield.

Sciurus nigrovittatus Horsf., Zool. Res. Java, 1824, p.

BLACK-STRIPED SQUIRREL.

1. Adult — P. Sumatra. E. Gerrard & Sons.
2. Adult — P. Singapore. E. Gerrard & Sons.
3. Adult ♀ P. Badging, India. E. Gerrard & Sons. H. O. Forbes.

224. *Sciurus brookii* Thomas.

Sciurus brookei Thos., Ann. Mag. Nat. Hist., 6th Ser., ix, 1892, p. 253.

BROOKE'S SQUIRREL.

1. Adult — P. Lawas Mountains, Borneo. E. Gerrard & Sons.

*True *S. notatus* appears to be restricted exclusively to Java.

225. *Sciurus lowii* Thomas.

Sciurus lowii Thos., Ann. Mag. Nat. Hist., 6th Ser., ix, 1892
p. 253.

LOWE'S SQUIRREL.

1. Adult — P. Paitan, N. Borneo. E. Gerrard & Sons. A. Everett.

226. *Sciurus jentinki* Thomas.

Sciurus jentinki Thos., Ann. Mag. Nat. Hist., 5th Ser., xx, 1887,
p. 138.

JENTINK'S SQUIRREL.

1. Adult — P. Kina Balu, Borneo. E. Gerrard & Sons. A. Everett.

227. *Sciurus leucomus* Müller & Schlegel.

Sciurus leucomus Müll. & Schleg., Verhandl. over de Natuur.
Gesch. Nederl., 1839, p. 87. Jent., Notes Leyd. Mus., v,
1883, p. 251.

CELEBES SQUIRREL.

1. Adult ♂ P. Rosokan, Celebes. E. Gerrard & Sons. E. & C. Hose.

228. *Sciurus steerii* Günther.

Sciurus steerii Günth., Proc. Zool. Soc., 1876, p. 735.

STEERE'S SQUIRREL.

1. Adult ♂ P. Paragoa, Philippines. J. B. Steere.
2. Adult — P. Paragoa, Philippines. J. B. Steere.

229. *Sciurus samarensis* Steere.

Sciurus samarensis Steere, List Birds & Mamm. Philipp., 1890,
p. 29. Meyer, Abh.-Ber. Zool. Mus. Dresd., 1896, p. 28, pl. xi,
fig. 2.

ISLAND OF SAMAR SQUIRREL.

1. Adult ♀ Type, No. 1080. P. Island of Samar, Philippines. J. B. Steere.
2. Adult ♀ Paratype. P. Island of Samar, Philippines. J. B. Steere.

230. *Sciurus mindanensis* Steere.

Sciurus mindanensis Steere, List Birds & Mamm. Philipp., 1890,
p. 29. Jent., Notes Leyd. Mus., v, 1883, p. 129.

ISLAND OF MINDANAO SQUIRREL.

1. Adult — Type, No. 1077. P. Island of Mindanao, Philippines. J. B. Steere.
2. Adult — Paratype P. Island of Mindanao, Philippines. J. B. Steere.

Subgenus D. Callosciurus.

231. *Sciurus prevosti* Desmarest.*Sciurus prevostii* Desm., Mamm., 1822, p. 335.

PREVOST'S SQUIRREL.

1. Adult — P. Malacca. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3. Adult ♀ P. Malacca. E. Gerrard & Sons.

a. Sciurus prevosti borneensis Müller & Schlegel.*Sciurus prevostii* var. *borneensis* Müll. & Schleg., Verhandl. over de Natuur. Gesch. Nederl., 1839-44, p. 86.

BORNEAN PREVOST SQUIRREL.

1. Adult — P. Batu Sang, Borneo. E. Gerrard & Sons. E. Hose.

b. Sciurus prevosti kuchingensis Bonhote.*Sciurus prevostii kuchingensis* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 170.

KUCHING PREVOST SQUIRREL.

1. Adult — P. Penrisen Hills. E. Gerrard & Sons. A. Everett.

232. *Sciurus caroli* Bonhote.*Sciurus prevostii* Desm., Hose's Mamm. Borneo, 1893, p. 45. (Part.)*Sciurus caroli* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 173.

HOSE'S SQUIRREL.

1. Adult ♀ P. Iniri River, Sarawak, Borneo. E. Gerrard & Sons. C. Hose.

a. Sciurus caroli griseicauda Bonhoté.*Sciurus caroli griseicauda* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 174.

GRAY-TAILED SQUIRREL.

1. Adult ♀ P. Batu Sang, Borneo. E. Gerrard & Sons. C. Hose.

233. *Sciurus baluensis* Bonhote.*Sciurus baluensis* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 174.

MOUNT KINA BALU SQUIRREL.

1. Adult ♀ Topotype. P. Mount Kina Balu, Borneo. E. Gerrard & Sons. A. Everett.

a. Sciurus rufoniger pluto (Gray).*Macroxus pluto* Gray, Ann. Mag. Nat. Hist., 3d. Ser., xx, 1867, p. 283.

BLACK SQUIRREL.

1. Adult ♂ P. Labuan, Borneo. E. Gerrard & Sons. A. Everett.
2. Adult — P. Malingai Mt., Borneo. E. Gerrard & Sons. A. Everett.
3. Adult ♂ P. Bongon, N. Borneo. E. Gerrard & Sons. A. Everett.

Subgenus E. *Erythrosciurus*.234. *Sciurus finlaysoni* Horsfield.

Sciurus finlaysoni Horsf., Zoöl. Res. Java, 1824.

Sciurus splendens Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 62.

FINLAYSON'S SQUIRREL.

1. Adult — P. Sanga Island. E. Gerrard & Sons.

This specimen is apparently of the *S. harmandi* style with a tendency to red beneath.

Subgenus F. *Baginia*.235. *Sciurus locrioides* Hodgson.

Sciurus lokrioides Hodg., Jour. Asiat. Soc. Beng., v, 1836, p. 332.

Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 274.

Sciurus locrioides Hodg., Jour. Asiat. Soc. Beng., x, p. 915.

Sciurus assamensis McClell., apud Gray, List Spec. Mamm. Brit. Mus., 1843, p. 143. (desc. nulla.)

Sciurus blythii Tytler, Ann. Mag. Nat. Hist., 2nd Ser., xiv, 1854, p. 172.

Macroxus similis Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 281.

HOARY-BELLIED HIMALAYAN SQUIRREL.

1. Adult ♀ P. Cachar, India. E. Gerrard & Sons. E. Inglis.
2. Adult ♂ P. India. E. Gerrard & Sons.

236. *Sciurus tenuis* Horsfield.

Sciurus tenuis Horsf., Zoöl. Res. Java, 1824, p.

Sciurus affinis Horsf., Zoöl. Res. Java, 1824. p. (nec Raffles.)

Sciurus modestus Müll. & Schleg., Verhandl. over de Natuur. Gesch. Nederl., 1849-44, p. 96, pl. xxiv.

SLENDER SQUIRREL.

1. Adult — P. Penrisen Hills. E. Gerrard & Sons. A. Everett.

Subgenus G. *Guerlinguetus*.a. *Sciurus æstuans hoffmanni* Peters.

Sciurus æstuans var. *hoffmanni* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1863, p. 654.

Sciurus xanthotus Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 429.

Sciurus griseogena! Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 430. (Part. Costa Rica specimens.)

Sciurus rufoniger Allen, Mon. N. Am. Rod., 1877, p. 757. (Part. Costa Rica specimens.)

Sciurus griseogenys Alston, Proc. Zool. Soc., 1878, p. 667. (Part. Costa Rica, & Veragua Panama, specimens.)

Sciurus æstuans hoffmanni Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 104, fig. 15. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 61. Zool. Ser.

HOFFMANN'S SQUIRREL.

1. Adult ♂ P. Ypura. E. Gerrard & Sons.
2. Adult ♀ P. Lacagua. E. Gerrard & Sons.
- 3-4. Adult — P. Costa Rica. E. Gerrard & Sons.
5. Adult ♂ P. Costa Rica. C. F. Underwood.
6. Adult ♀ P. Costa Rica. C. F. Underwood.
7. Adult ♂ Exch. Borneo, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.
8. Adult ♀ Exch. Borneo, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.
- 9-12. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
- 13-16. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
17. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
18. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

237. *Sciurus chapmani* Allen.

Sciurus æstuans hoffmanni Allen & Chapm., Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 17. (nec Peters.)

Sciurus chapmani Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 16.

CHAPMAN'S SQUIRREL.

- 1-2. Adult ♂ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

238. *Sciurus langsdorffi* Brandt.

Sciurus langsdorffi Brandt, Mém. Acad. St. Pétersb., 1835, p. 428, pl. 11.

LANGSDORFF'S SQUIRREL.

1. Adult ♂ P. South America. E. Gerrard & Sons.
2. Adult ♀ P. Brazil, S. America. E. Gerrard & Sons.

Subgenus H. *Araëosciurus*.239. *Sciurus oculatus* Peters.

Sciurus capistratus Licht., Abhandl. K. Akad. Wiss. Berl., 1830,
p. 116. (nec Bosc, 1802.)

Sciurus carolinensis Sauss., Rev. Mag. Zool., 2me Sér., XIII, 1861,
p. 4. (nec Gmel.)

Sciurus oculatus Peters, Monatsb. K. Akad. Wiss. Berl., 1863,
p. 653. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M.
Pub., IV, Pt. 1, 1904, p. 107. Zoöl. Ser. *Id.* Check-L. Mamm.
N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 62.
Zoöl. Ser.

Sciurus hypopyrrhus Allen, Bull. U. S. Geol. Surv. Terr., IV, 1878,
pp. 881-882.

Sciurus niger melanonotus Thos., Proc. Zoöl. Soc., 1890, p. 73,
pl. VI.

BLACK-BACKED SQUIRREL.

1-5. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico.
Heller & Barber.

6. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico.
Heller & Barber.

240. *Sciurus nayaritensis* Allen.

Sciurus alstoni Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1889,
p. 167. (nec Anderson.)

Sciurus nayaritensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890,
p. VII, footnote, and p. 185. Elliot, Mamm. Middle Amer. &
W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 108, fig. 16. Zoöl.
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
F. C. M. Pub., VI, 1905, p. 63. Zoöl. Ser.

NAYARIT SQUIRREL.

1. Adult ♂ Exch. San de Nayarit, State of Jalisco, Mexico.
Am. Mus. Nat. Hist. N. Y. A. Buller.

2. Adult ♀ Exch. San de Nayarit, State of Jalisco, Mexico.
Am. Mus. Nat. Hist. N. Y. A. Buller.

241. *Sciurus arizonensis* Coues.

Sciurus arizonensis Coues, Amer. Nat., 1, 1867, p. 357. Elliot,
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 59, fig. 14.
Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.

Pub., IV, Pt. I, 1904, p. 109. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 63. Zoöl. Ser.

Sciurus colliæi Allen, Mon. N. Am. Rod., 1877, p. 738. (nec Rich.)

ARIZONA GRAY SQUIRREL.

1. Adult ♂ P. Fort Apache, Arizona. W. W. Price.
2. Adult ♂ Exch. Fossil Creek, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
3. Adult ♀ Exch. Fossil Creek, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
4. Adult ♂ Exch. Wehr Creek, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

a. *Sciurus arizonensis huachuca* Allen.

Sciurus arizonensis huachuca Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 349. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 60. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 109. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 64. Zoöl. Ser.

HUACHUCA SQUIRREL.

1. Adult ♂ P. Huachuca Mts., Arizona. ———?
2. Adult ♀ P. Huachuca Mts., Arizona. Loye Miller.
3. Adult ♀ Exch. Huachuca Mts., Arizona. Am. Mus. Nat. Hist. N. Y. W. W. Price.

242. *Sciurus apache* Allen.

Sciurus griseoflavus Thos., Proc. Zoöl. Soc., 1882, p. 372. (nec Gray, 1867.)

Sciurus niger ludovicianus Thos., Proc. Zoöl. Soc., 1890, p. 73 (footnote). (nec Custis.)

Sciurus apache Allen, Bull. Am. Mus. Nat. Hist. N. Y., v, 1893, p. 29. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 59. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 110. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 64. Zoöl. Ser.

APACHE SQUIRREL.

- 1-2. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

Subgenus I. *Parasciurus*.**243. *Sciurus rufiventer* E. Geoffroy.**

Sciurus rufiventer E. Geoff., Cat. Mamm. Mus. Hist. Nat. Paris, 1803, p. 176.

Sciurus ludovicianus Custis, Bart. Med. & Phys. Jour., II, Pt. II, 1806, p. 47. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 52. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 64. Zoöl. Ser.

Sciurus macroura Say, Long's Exped. Rocky Mts., I, 1823, p. 115.

Sciurus magnicaudatus Harl., Faun. Amer., 1825, p. 178.

Sciurus subauratus Bachm., Proc. Zoöl. Soc., 1838, p. 87.

Sciurus auduboni Bachm., Proc. Zoöl. Soc., 1838, p. 97.

Sciurus occidentalis Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 317.

Sciurus sayi Aud. & Bachm., Quad. N. Amer., II, 1851, p. 274, pl. LXXXIX.

FOX SQUIRREL.

1. Adult — P. Iowa. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
3. Adult ♀ Exch. Warsaw, Illinois. Am. Mus. Nat. Hist. N. Y. C. K. Worthern.
- 4-5. Adult ♀ Pres. Hicksville, Ohio. H. Meek.
- 6-8. Adult — Pres. Hicksville, Ohio. H. Meek.
- 9-13. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
14. Adult ♀ Coll. Noble, Oklahoma Terr. T. Surber.
- 15-21. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 22-27. Adult ♀ P. Lawrence, Kansas. J. Rowley.

a. Sciurus rufiventer texensis (Bachman).

Sciurus texianus ! Bachm., Proc. Zoöl. Soc., 1838, p. 86.

Sciurus limitis Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 331.

Sciurus ludovicianus limitis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 53. Zoöl. Ser.

Sciurus rufiventer texensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 110, fig. 17. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 65. Zoöl. Ser.

TEXAS FOX SQUIRREL.

- 1-2. Adult ♂ Exch. Fort Clarke, Texas. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

3. Adult ♂ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
- 4-5. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

b. *Sciurus rufiventer neglectus* (Gray).

Sciurus vulpinus Schreb., Säugth., IV, 1792, p. 772. (nec Gmelin.)

Sciurus cinereus Le Conte, App. McMurt. Cuv., Rég. Anim., 1831, p. 433. (nec Linnæus.)

Macroxus neglectus Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 425.

Sciurus ludovicianus vicinus Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 150. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 52. Zoöl. Ser.

Sciurus rufiventer neglectus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 22. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 65. Zoöl. Ser.

EASTERN FOX SQUIRREL.

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
- 2-4. Adult ♀ P. Lewisburg, West Virginia. T. Surber.
5. Adult ♂ P. Wilson, New York. C. K. Worthern.

244. *Sciurus durangi* (Thomas).

Sciurus aberti Thos., Proc. Zoöl. Soc., 1882, p. 372. (nec Woodhouse.)

Sciurus aberti durangi Thos., Ann. Mag. Nat. Hist., 6th Ser., XI, 1893, p. 28.

Sciurus durangi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 112. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 67. Zoöl. Ser.

DURANGO SQUIRREL.

- 1-5. Adult ♂ Coll. Coyotes, State of Durango. Heller & Barber.
- 6-9. Adult ♀ Coll. Coyotes, State of Durango. Heller & Barber.

245. *Sciurus niger* Linnæus.

Sciurus niger Linn., Syst. Nat., I, 1758, p. 64. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 51, fig. 10. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 66. Zoöl. Ser.

Sciurus cinereus Linn., Syst. Nat., I, 1758, p. 64. (Part.)

Sciurus vulpinus Gmel., Syst. Nat., I, 1788, p. 147.

SOUTHERN FOX SQUIRREL.

1. Adult — P. Florida. Ward's Nat. Scien. Establ., Roches-
ter, N. Y.
2. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
- 3-4. Adult ♂ Exch. Tarpon Springs, Florida. Am. Mus. Nat.
Hist. N. Y. W. E. D. Scott.
5. Adult ♂ Exch. Madisonville, Louisiana. Am. Mus. Nat.
Hist. N. Y. G. Kohn.
6. Adult ♂ Exch. St. Tammany Parish, Louisiana. Am. Mus-
Nat Hist. N. Y. G. Kohn.
7. Adult — Exch. St. Tammany Parish, Louisiana. Am. Mus.
Nat. Hist. N. Y. C. S. Galbraith.
8. Adult ♂ Coll. New Berlin, Florida. T. Surber.
9. Adult ♀ Black var. Coll. New Berlin, Florida. T. Surber.
10. Adult ♀ P. Bellair, Florida. C. S. Brimley.

Subgenus J. *Otosciurus*.246. *Sciurus aberti* Woodhouse.

Sciurus dorsalis Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p.
110. (nec Gray.)

Sciurus aberti Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p. 220.
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 57,
fig. 13. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &
W. Indies, F. C. M. Pub., VI, 1905, p. 66. Zool. Ser.

ABERT'S SQUIRREL.

1. Adult ♂ Exch. White Mountains, Arizona. Am. Mus. Nat.
Hist. N. Y. E. A. Mearns.
2. Adult ♀ Exch. Stoneman's Lake, Arizona. Am. Mus. Nat.
Hist. N. Y. E. A. Mearns.
3. Adult ♂ Exch. Cañon Creek, Arizona. Am. Mus. Nat.
Hist. N. Y. E. A. Mearns.
4. Adult ♀ Exch. Cañon Creek, Arizona. Am. Mus. Nat.
Hist. N. Y. E. A. Mearns.
5. Adult ♀ Exch. Mogollon Mts., Arizona. Am. Mus. Nat.
Hist. N. Y. E. A. Mearns.
6. Adult ♂ P. San Francisco Mts., Arizona. F. Stephens.
7. Adult ♀ P. Cooley's Ranch, Arizona. J. Diefenbach.
- 8-9. Adult ♀ P. White Mts., Arizona. B. C. Condit.

Subgenus K. *Echinosciurus*.**247. *Sciurus aureigaster* F. Cuvier.***Sciurus niger* Erxl., Syst. Regn. Anim., 1777, p. 417. (nec Linn.)*Sciurus variegatus* Desm., Nouv. Dict. Hist. Nat., x, 1817, p. 103. (nec Erxl., 1777.)*Sciurus aureogaster* F. Cuv., Hist. Nat. Mamm., vi, 1829, pl. text.*Sciurus rufiventer* Licht., Abh. K. Akad. Wiss. Berl., (1827) 1830, p. 116. (nec E. Geoffroy.)*Sciurus leucogaster* F. Cuv., Suppl. Hist. Nat. Buffon, 1, 1831, p. 300.*Sciurus mustelinus* Aud. & Bachm., Proc. Acad. Nat. Scien. Phil. 1841, p. 100.*Sciurus aurogaster!* Aud. & Bachm., Quad. N. Amer., iii, 1851, p. 344.*Sciurus hypoxanthus* I. Geoff., Voy. de la Vénus, Zoöl., 1855, p. 158.*Sciurus hypopyrrhus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 222. (nec Wagler.)*Sciurus leucops* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 198.*Sciurus aureigaster* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 115, figs. 19, xxix. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 68. Zoöl. Ser.FIG. XXVI. *SCIURUS AUREIGASTER*. GOLDEN-BELLIED SQUIRREL.

GOLDEN-BELLIED SQUIRREL. *Ardilla* in Mexico.

1. Adult ♀ Exch. Rio Carono, Mexico. Am. Mus. Nat. Hist. N. Y. J. M. Privur.
2. Adult ♀ P. Plan del Rio, State of Vera Cruz, Mexico. E. Gerrard & Sons.

a. *Sciurus aureigaster hypopyrrhus* (Wagler).

Sciurus hypopyrrhus Wagl., Isis, 1831, pp. 510-511.

Macroxus morio Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 424.

Macroxus maurus Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 425.

Sciurus variegatus Sumichr., La Natural., v, 1882, p. 324.

Sciurus aureogaster Allen, Bull. Am. Mus. Nat. Hist. N. Y., III, 1890, p. 181.

Sciurus aureigaster hypopyrrhus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 116. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 68. Zool. Ser.

FIRE-BELLIED SQUIRREL.

- 1-8. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 9-14. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

b. *Sciurus aureigaster frumentor* Nelson.

Sciurus aureogaster frumentor Nelson, Proc. Biol. Soc. Wash., XII, 1898, p. 154.

Sciurus aureigaster frumentor Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 117. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 69. Zool. Ser.

PEROTE SQUIRREL.

1. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
2. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

a. *Sciurus poliopus nemoralis* (Nelson).

Sciurus albiges nemoralis Nels., Proc. Biol. Soc. Wash., XII, 1898, p. 151.

Sciurus wagneri nemoralis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 454.

Sciurus poliopus nemoralis Nels., Proc. Wash. Acad. Scien., 1,

1899, p. 50. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 118. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 70. Zoöl. Ser.

MICHOACAN SQUIRREL.

1. Adult ♂ P. State of Jalisco, Mexico. E. Gerrard & Sons. A. C. Buller.

b. Sciurus poliopus peregrinator Nelson.

Sciurus poliopus peregrinator Nels., Proc. Biol. Soc. Wash., XVII, 1904, p. 149. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 70. Zoöl. Ser.

PUEBLA SQUIRREL.

1. Adult ♂ Coll. Apiluluca, State of Puebla? Mexico. G. F. Breninger.

c. Sciurus poliopus cervicalis (Allen).

Sciurus leucops Allen, Mon. N. Am. Rod., 1877, p. 753. (nec Gray.)

Sciurus variegatus Alston, Biol. Centr. Amer., Mamm., 1, 1880, p. 127. (nec Erxl.)

Sciurus aureogaster leucops Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 166.

Sciurus cervicalis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 183.

Sciurus wagneri cervicalis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 454.

Sciurus poliopus cervicalis Nels., Proc. Wash. Acad. Scien., 1, 1899, p. 51. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 119. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 71. Zoöl. Ser.

COLIMA MOUNTAIN SQUIRREL.

1. Adult ♂ Exch. Sierra Nevada de Colima, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.
2. Adult ♀ Paratype. Exch. Hacienda San Marcos, State of Tonila, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

248. *Sciurus colliæi* Richardson.

Sciurus colliæi Rich., Voy. 'Blossom,' Zoöl., 1839, p. 8. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 121. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 73. Zoöl. Ser.

COLLIE'S SQUIRREL.

1. Adult ♂ P. Valle de Banderas, Mexico. E. Gerrard & Sons.

249. *Sciurus sinaloensis* Nelson.

Sciurus sinaloensis Nelson, Proc. Wash. Acad. Scien., 1, 1899, p. 60. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 122. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 73. Zoöl. Ser.

SINALOA SQUIRREL.

1. Adult ♀ P. State of Sinaloa, Mexico. P. O. Simons.
- 2-3. Adult ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 4-5. Adult ♀ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.

250. *Sciurus socialis* Wagner.

Sciurus socialis Wagn., Abh. Math.-Phys. Cl. K. Bayer. Akad. Wiss. München, 11, 1837, p. 501, pl. v. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 123. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 73. Zoöl. Ser.

Sciurus aureigaster Allen, Mon. N. Am. Rodent., 1877, p. 750. (Part.)

Sciurus variegatus Alston, Proc. Zoöl. Soc., 1878, p. 660. (Part.)

TEHUANTEPEC SQUIRREL.

1. Adult ♂ Exch. Tehuantepec, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.
2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
3. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 4-5. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

251. *Sciurus griseiflavus* (Gray).

Macroxus griseoflavus Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 427.

Sciurus ludovicianus Tomes, Proc. Zoöl. Soc., 1861, p. 281. (nec Custis.)

Sciurus aureigaster Allen, Mon. N. Am. Rod., 1877, p. 750. (Part.)

Sciurus affinis Alston, Proc. Zoöl. Soc., 1878, p. 660.

Sciurus griseiflavus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 124. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 74. Zoöl. Ser.

GUATEMALA SQUIRREL.

1. Adult — P. Guatemala. E. Gerrard & Sons, C. F. Underwood.

252. *Sciurus yucatanensis* (Allen).

Sciurus carolinensis yucatanensis Allen, Mon. N. Am. Rod., 1877, p. 705.

Sciurus carolinensis Alston, Proc. Zool. Soc., 1878, p. 658.

Sciurus yucatanensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 5. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 125. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 75. Zool. Ser.

YUCATAN SQUIRREL.

1. Adult ♀ Exch. Chichen Itza, Yucatan. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

2. Adult ♀ Pres. San Felipe, Yucatan. H. H. Brown.

3. Adult ♀ Pres. Rio Lagatos, Yucatan. H. H. Brown.

a. *Sciurus adolphii dorsalis* (Gray).

Sciurus dorsalis Gray, Proc. Zool. Soc., 1848, p. 138.

Sciurus rigidus Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1863, p. 652.

Sciurus intermedius Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 421.

Sciurus nicoyana Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 423.

Sciurus boothia Allen, Mon. N. Am. Rod., 1877, p. 741. (Part. West Costa Rica specimens.)

Sciurus hypopyrrhus Allen, Mon. N. Am. Rod., 1877, p. 746. (Part. West Costa Rica specimens.)

Sciurus adolpheii dorsalis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 127. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 76. Zool. Ser.

BANDED-BACK SQUIRREL.

1. Adult ♀ Exch. Alajuela, Costa Rica. Am. Mus. Nat. Hist. N. Y. A. Alfaro.

2. Adult ♀ Exch. La Carpintera, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.

3-4. Adult ♀ P. ——— ? Costa Rica. E. Gerrard & Sons.

5-6. Adult ♂ P. Miravalles, Costa Rica. E. Gerrard & Sons.

7. Adult ♀ P. Miravalles, Costa Rica. E. Gerrard & Sons.

253. *Sciurus melania* (Gray).

Macroxus melania Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 425.

Sciurus melania Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. 1, 1904, p. 128. Zoöl. Ser. *Id.* Check-L.
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,
p. 76. Zoöl. Ser.

GRAY'S BLACK SQUIRREL.

- 1-4. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 5-8. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 9. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
- 10. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

254. *Sciurus variabilis* Is. Geoffroy.

Sciurus variabilis Is. Geoff., Mag. Zool., 1, 1832, pl. IV.

Sciurus gerrardi Gray, Proc. Zool. Soc., 1861, p. 92, pl. XVI.
(Part.)

VARIABLE SQUIRREL.

- 1. Adult ♂ P. Chauchamago. E. Gerrard & Sons.

a. *Sciurus saltuensis bondæ* Allen.

Sciurus variabilis Bangs, Proc. Biol. Soc. Wash., XI, 1898, p. 184.
(nec I. Geoff.)

Sciurus saltuensis bondæ Allen, Bull. Am. Mus. Nat. Hist. N. Y.,
1899, p. 213.

BONDA SQUIRREL.

- 1-5. Adult ♂ Paratypes. P. Bonda, Colombia, South America.
H. H. Smith.
- 6-10. Adult ♀ Paratypes. P. Bonda, Colombia, South America
H. H. Smith.

Subgenus L. *Neosciurus*.

255. *Sciurus carolinensis* Gmelin.

Sciurus carolinensis Gmel., Syst. Nat., 1, 1788, p. 148. Elliot,
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 53, fig. 11.
Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
F. C. M. Pub., VI, 1905, p. 78. Zoöl. Ser.

CAROLINA GRAY SQUIRREL.

- 1-3. Adult — Pres. Hicksville, Ohio. H. Meek.
- 4-12. Adult ♂ P. White Sulphur Springs, W. Virginia. T. Surber.
- 13. Adult ♀ P. White Sulphur Springs, W. Virginia. T. Surber.
- 14-15. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
- 16-18. Adult ♂ Coll. St. Marys, Georgia. T. Surber.
- 19. Adult ♀ Coll. St. Marys, Georgia. T. Surber.
- 20. Adult ♂ Coll. Crystal River, Florida. T. Surber.

- 21. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 22-23. Adult ♀ Coll. Enterprise, Florida. T. Surber.
- 24-25. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
- 26. Adult ♂ Coll. Micco, Florida. T. Surber.
- 27. Adult ♀ Coll. E. Penn., opp. Micco, Florida. T. Surber.
- 28. Adult ♂ Coll. Oak Lodge, Florida. T. Surber.
- *29. Adult ♀ Coll. St. Charles Creek, Florida. T. Surber.
- 30-34. Adult — Coll. Greenway, Clay County, Arkansas. S. E. Meek.
- 35. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
- 36. Adult ♂ Coll. Apex, North Carolina. T. Surber.
- 37. Adult—Albino. Pres: ——— ? E. E. Ayer.

a. *Sciurus carolinensis leucotis* (Gapper).

Sciurus cinereus Schreb., Säugth., IV, 1792, p. 766, pl. CCXCII.
(nec Linn.)

? *Sciurus pennsylvanicus* Ord, Guth. Geogr., 2nd Am. ed., II, 1815,
p. 292.

? *Sciurus hiemalis* Ord, Guth. Geogr., 2nd Am. ed., II, 1815, p. 292.

Sciurus niger Godman, Am. Nat. Hist., II, 1826, p. 133. (nec
Linn.)

Sciurus leucotis Gapper, Zoöl. Journ., v, 1830, p. 206.

Sciurus vulpinus DeKay, Nat. Hist. N. Y., I, Zoöl., 1842, p. 59.
(nec Gmel.)

Sciurus migratorius Aud. & Bachm., Quad. N. Am., I, 1849, p.
265, pl. xxxv.

Sciurus carolinensis leucotis Elliot, Syn. N. Am. Mamm., F. C. M.
Pub., II, 1901, p. 53. Zoöl. Ser. *Id.* Check-L. Mamm. N.
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 79. Zoöl.
Ser.

NORTHERN OR WHITE-EARED GRAY SQUIRREL.

- 1. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist.
N. Y. J. Rowley.
- 2. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist.
N. Y. J. Rowley.
- 3. Adult ♀ Exch. Lawyerville, New York. Am. Mus. Nat.
Hist. N. Y. J. Rowley.
- 4. Adult ♂ Black var. Exch. Erie, Pennsylvania. Am. Mus.
Nat. Hist. N. Y. G. B. Sennett.

*Among the Florida specimens are some that probably might be considered
as *S. c. extimus* Bangs. Regarding this, however, see remarks in Pub. Field
Columb. Mus., III, 1901, p. 35. Zoöl. Ser.

5. Adult ♀ Black var. Exch. Erie, Pennsylvania. Am. Mus. Nat. Hist. N. Y. G. B. Sennett.
6. Adult ♂ Black var. P. White Sulphur Springs, W. Virginia. T. Surber.
7. Adult ♂ P. White Sulphur Springs, W. Virginia. T. Surber.
- 8-9. Adult ♀ P. White Sulphur Springs, W. Virginia. T. Surber.
10. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
11. Adult — Black var. P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
12. Juv. ♀ Exch. Van Cortlandt, New York. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

b. Sciurus carolinensis hypophæus Merriam.

Sciurus carolinensis hypophæus Merr., Scien., VIII, 1886, p. 351.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 54.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 79. Zool. Ser.

MINNESOTA GRAY SQUIRREL.

- 1-2. Adult ♀ Exch. Houston, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

c. Sciurus carolinensis fuliginosus (Bachman).

Sciurus fuliginosus Bachm., Proc. Zool. Soc., 1838, p. 97.
Sciurus carolinensis fuliginosus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 55. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 79. Zool. Ser.

DUSKY GRAY SQUIRREL.

- 1-2. Adult ♂ Exch. New Orleans, Louisiana. Am. Mus. Nat. Hist. N. Y. G. Kohn.

Subgenus M. *Hesperosciurus*.

256. *Sciurus griseus* Ord.

Sciurus griseus Ord, Guth. Geogr., 2nd Am. ed., II, 1815, p. 292.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 55, fig. 12. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 130, fig. 20. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 78. Zool. Ser.

Sciurus fessor Peale, U. S. Expl. Exped., Mamm. & Birds, 1848, p. 55.

Sciurus heermanni Le Conte, Proc. Acad. Nat. Scien. Phil., 1852, p. 149.

Sciurus leporinus Hensh., Ann. Rep. Engin., 1876, p. 25.

Sciurus fossor anthonyi Mearns, Proc. U. S. Nat. Mus., xx, 1898, p. 501.

Sciurus griseus anthonyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 57. Zoöl. Ser.

CALIFORNIA GRAY SQUIRREL.

1. Adult ♀ P. Swiss River, Calaveras County, California. W. W. Price.
- 2-3. Adult ♂ P. Swiss River, Calaveras County, California. W. W. Price.
- 4-5. Adult ♀ Coll. Petaluma, California. E. Heller.
6. Adult ♂ Coll. Eureka, California. E. Heller.
7. Adult ♂ P. Snow Mountains, California. J. Diefenbach.
- 8-11. Adult ♀ P. Snow Mountains, California. J. Diefenbach.
12. Adult ♂ Exch. Nicasio, California. Am. Mus. Nat. Hist. N. Y.
13. Adult ♂ Coll. Hot Spring, Mt. Whitney, California. E. Heller.
- 14-15. Adult ♂ Exch. Campbell's Ranch, Laguna Mts., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
16. Adult ♀ Exch. Campbell's Ranch, Laguna Mts., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
17. Adult ♂ P. Cuyamaca Mts., California. F. Stephens.
- 18-19. Adult ♀ Coll. Agness, Oregon. E. Heller.
- 20-23. Adult ♂ Coll. 30 miles west of Minaca, Mexico. G. F. Breninger.
24. Adult ♀ Coll. 30 miles west of Minaca, Mexico. G. F. Breninger.

a. *Sciurus griseus nigripes* (Bryant).

Sciurus fossor nigripes Bryant, Proc. Calif. Acad. Scien., 1889, p. 25.

Sciurus griseus nigripes Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 56. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 78. Zoöl. Ser.

BLACK-FOOTED GRAY SQUIRREL.

- 1-2. Adult ♂ P. San Antonio, California. J. Diefenbach.
- 2-5. Adult ♀ P. San Antonio, California. J. Diefenbach.
6. Adult ♀ P. Mt. Hamilton, California. W. W. Price.
7. Adult ♀ P. Carmel River, California. W. Greeley.
- 8-9. Adult ♂ P. Big Basin, headwaters of the Waddell River, California. G. A. Coleman.
10. Adult ♀ P. Big Basin, headwaters of the Waddell River, California. G. A. Coleman.

11. Adult — P. Big Basin, headwaters of the Waddell River, California. G. A. Coleman.

Subgenus N. *Tamiasciurus*.

257. *Sciurus hudsonius* (Erxleben).

Sciurus vulgaris hudsonicus Erxl., Syst. Regn. Anim., 1777, p. 416.

Sciurus hudsonius Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 60, fig. 15. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 80. Zoöl. Ser.

HUDSON BAY CHICKAREE.

- 1-3. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
4. Adult ♀ Exch. Gulquac Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult ♂ Coll. Dalhousie, New Brunswick, Canada. T. Surber.
6. Adult ♂ Exch. Forks of River Tobique, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
7. Adult ♀ Exch. Forks of River Tobique, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
8. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
9. Adult ♂ Coll. Lake Edward, Province of Quebec, Canada. T. Surber.
10. Adult ♀ Coll. Lake Edward, Province of Quebec, Canada. T. Surber.
- 11-12. Adult ♂ Coll. Gravenhurst, Province of Ontario, Canada. L. Kenkel.
- 13-21. Adult ♀ Coll. Gravenhurst, Province of Ontario, Canada. L. Kenkel.
22. Adult ♀ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
23. Adult ♀ P. Lone Park, Wyoming. E. Thompson Seton.
24. Adult ♂ Coll. Dowagiac, Michigan. L. Pray.
25. Adult ♀ Coll. Dowagiac, Michigan. L. Pray.

a. Sciurus hudsonius loquax Bangs.

Sciurus hudsonicus loquax Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 161.

Sciurus hudsonius loquax Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 80. Zoöl. Ser.

NOISY CHICKAREE.

1. Adult ♂ Exch. Syracuse, N. Y. Am. Mus. Nat. Hist. N. Y. M. M. Green.
2. Adult ♀ Exch. South Nyack, N. Y. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 3-5. Adult ♀ Exch. Cornwall, N. Y. Am. Mus. Nat. Hist. N. Y. C. Allen.
6. Adult ♂ Exch. Alder Creek, N. Y. Am. Mus. Nat. Hist. N. Y. M. M. Green.
7. Adult ♀ Exch. Alder Creek, N. Y. Am. Mus. Nat. Hist. N. Y. M. M. Green.
- 8-11. Adult ♂ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 12-14. Adult ♀ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. J. Rowley.
15. Adult ♂ Coll. White Sulphur Springs, W. Virginia. T. Surber.
- 16-17. Adult ♀ Coll. White Sulphur Springs, W. Virginia. T. Surber.
- 18-19. Adult ♂ Coll. Black Mountain, W. Virginia. T. Surber.
20. Adult ♀ Coll. Top of Alleghany Mts., W. Virginia. T. Surber.
- 21-22. Adult — Pres. Hicksville, Ohio. H. Meek.
23. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
24. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
25. Adult — P. Knoxville, Iowa. G. K. Cherrie.
26. Adult ♂ P. Park Siding, Michigan. C. Brandler.
- 27-31. Adult ♀ P. Park Siding, Michigan. C. Brandler.
- 32-35. Adult ♂ P. Lake Murphy, Michigan. C. Brandler.
36. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

b. Sciurus hudsonius gymnicus Bangs.

Sciurus hudsonicus gymnicus Bangs, Proc. N. Engl. Zoöl. Club., I, 1899, p. 28.

Sciurus hudsonius gymnicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 61. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 80. Zoöl. Ser.

EASTERN CHICKAREE.

1. Adult ♂ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.

2. Adult ♂ P. Georget, Prince Edward Island, Canada. R. T. Young.
3. Adult ♀ P. Georget, Prince Edward Island, Canada. R. T. Young.

e. Sciurus hudsonius minnesota Allen.

Sciurus hudsonicus minnesota Allen, Amer. Nat., xxxiii, 1899, p. 640.

Sciurus hudsonius minnesota Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 81. Zoöl. Ser.

MINNESOTA CHICKAREE.

1. Adult ♂ Exch. Camp Douglas, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 2-3. Adult ♀ Exch. Camp Douglas, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 4-5. Adult ♂ Paratypes. Exch. Fort Snelling, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 6-7. Adult ♀ Paratypes. Exch. Fort Snelling, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
8. Adult ♂ Pres. Tomahawk Lake, Minn. H. T. Chace.

d. Sciurus hudsonius dakotensis Allen.

Sciurus hudsonicus dakotensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 325.

Sciurus hudsonius dakotensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 81. Zoöl. Ser.

SOUTH DAKOTA CHICKAREE.

1. Adult ♀ Exch. Glendale, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Adult ♀ Paratype. Exch. Squaw Creek, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

e. Sciurus hudsonius baileyi Allen.

Sciurus hudsonicus baileyi Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 261.

Sciurus hudsonius baileyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 63. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 81. Zoöl. Ser.

BAILEY'S CHICKAREE.

- 1-5. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.

6. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 7-8. Adult ♂ P. Canadian Nat. Park, N. W. Territory. G. F. Dippie.
9. Adult ♀ P. Canadian Nat. Park, N. W. Territory. G. F. Dippie.
10. Adult ♂ P. Beaver Lake, N. W. Territory. G. F. Dippie.
11. Adult ♂ P. Carpenter's Mt., Cariboo, Brit. Columbia, Canada. G. F. Dippie.
12. Adult ♀ P. Carpenter's Mt., Cariboo, Brit. Columbia, Canada. G. F. Dippie.

f. Sciurus hudsonius richardsoni (Bachman).

Sciurus richardsonii Bachm., Proc. Zool. Soc., 1838, p. 100.

Sciurus hudsonius richardsoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 64. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 82. Zool. Ser.

RICHARDSON'S CHICKAREE.

- 1-4. Adult — Pres. Petit Lake, Idaho. S. E. Meek.

g. Sciurus hudsonius petulans Osgood.

Sciurus hudsonicus petulans Osgood, N. Am. Faun., No. 19, 1900, p. 27.

Sciurus hudsonius petulans Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Append., p. 426. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 82. Zool. Ser.

SCOLDING CHICKAREE.

1. Adult ♂ Topotype. Coll. White Pass, Alaska. D. G. Elliot.

h. Sciurus hudsonius vancouverensis Allen.

Sciurus hudsonicus vancouverensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 165.

Sciurus hudsonius vancouverensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 64. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 82. Zool. Ser.

VANCOUVER ISLAND CHICKAREE.

1. Adult ♂ Exch. Vancouver Island, Brit. Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
2. Adult ♀ Pres. Fort Wrangel, Alaska. H. Pidgeon.
- 3-10. Adult ♂ P. Vancouver Island, Brit. Columbia, Canada. A. Forrer.
- 11-20. Adult ♀ P. Vancouver Island, Brit. Columbia, Canada. A. Forrer.

- 21-22. Juv. ♂ P. Vancouver Island, Brit. Columbia, Canada.
A. Forrer.

258. *Sciurus douglasii* Bachman.

- Sciurus douglasii* Bachm., Proc. Zool. Soc., 1838, p. 99. Elliot,
Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 65. Zool. Ser.
Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
Pub., VI, 1905, p. 82. Zool. Ser.

DOUGLAS'S CHICKAREE.

- 1-8. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam
County, Washington. D. G. Elliot.
9. Adult ♀ Coll. Johnson's Ranch, Elwah River, Clallam
County, Washington. D. G. Elliot.
10-23. Adult ♂ Coll. Boulder Creek, Elwah River, Clallam
County, Washington. D. G. Elliot.
24-37. Adult ♀ Coll. Boulder Creek, Elwah River, Clallam
County, Washington. D. G. Elliot.
38-40. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam
County, Washington. D. G. Elliot.
41-44. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam
County, Washington. D. G. Elliot.
45-47. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam
County, Washington. D. G. Elliot.
48-49. Adult ♂ Coll. Seattle, Washington. E. C. Starks.
50-56. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
57. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
58. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
59. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
60-61. Adult ♂ Coll. Beaverton, Oregon. E. Heller.
62. Adult ♂ Coll. Chetco, Oregon. E. Heller.
63. Adult ♀ Coll. MacDonald's Ranch, Elwah River, Wash-
ington. D. G. Elliot.

a. Sciurus douglasii mollipilosus (Audubon & Bachman).

- Sciurus mollipilosus* Aud. & Bachm., Proc. Acad. Nat. Scien.
Phil., 1841, p. 42.

- Sciurus douglasii mollipilosus* Elliot, Syn. N. Am. Mamm., F. C. M.
Pub., 11, 1901, p. 65. Zool. Ser. *Id.* Check-L. Mamm. N.
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zool.
Ser.

SOFT-FURRED CHICKAREE.

- 1-3. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
4-6. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
7. Adult ♂ P. Point Reyes, California. C. K. Worthern.

8. Adult ♀ P. Point Reyes, California. C. K. Wörthern.
 9-10. Adult ♂ Coll. Requa, California. E. Heller.
 11-13. Adult ♂ Coll. Mendocino, California. E. Heller.
 14-15. Adult ♀ Coll. Mendocino, California. E. Heller.

b. Sciurus douglasi cascadensis Allen.

Sciurus douglasi cascadensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 277. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 66. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zoöl. Ser.

CASCADE MOUNTAINS CHICKAREE.

- 1-2. Adult ♂ P. Logan, Oregon. C. K. Worthern.
 3-4. Adult ♀ P. Logan, Oregon. C. K. Worthern.

c. Sciurus douglasi albolimbatus Allen.

Sciurus hudsonius californicus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 165. (nec Lesson.)

Sciurus douglasi albolimbatus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 453. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 66. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zoöl. Ser.

CALIFORNIA CHICKAREE.

1. Adult ♂ P. Red Point, California. W. W. Price.
 2. Adult ♂ P. Bishop Creek, California. F. Stephens.
 3. Adult ♂ P. Hermit Valley, California. W. W. Price.
 4. Adult ♂ P. Pyramid Peak, California. W. W. Price.
 5-6. Adult ♂ P. Silver Lake, California. W. W. Price.
 7. Adult ♀ P. Echo Lake, California. W. W. Price.
 8. Adult ♂ P. Woodfords, California. W. W. Price.
 9. Adult ♀ P. Blue Cañon, California. C. A. Allen.
 10. Adult ♀ P. Snow Mountains, California. J. Diefenbach.
 11. Adult ♂ P. Chaparral, California. C. K. Worthern.
 12. Adult ♀ P. Modoc County, California. H. Bidwell.
 13-14. Adult ♂ Coll. Big Cottonwood Meadows, Mount Whitney, California. E. Heller.
 15-16. Adult ♀ Coll. Big Cottonwood Meadows, Mount Whitney, California. E. Heller.
 17. Adult ♂ Coll. Whitney Creek, Mount Whitney, California. E. Heller.
 18. Adult ♂ Coll. Hot Springs, Long Cañon, Mount Whitney, California. E. Heller.
 19-20. Adult ♂ Coll. Ramshaw Meadows, Mount Whitney, California. E. Heller.

21. Adult ♀ Coll. Ramshaw Meadows, Mount Whitney, California. E. Heller.
22. Adult ♀ Coll. Whitney Meadows, Mount Whitney, California. E. Heller.
23. Adult ♂ Coll. Mount Whitney, California. E. Heller.
24. Adult ♂ P. Chaparral, California. E. Adams.

d. Sciurus douglasi mearnsi (Townsend).

Sciurus hudsonius mearnsi Towns., Proc. Biol. Soc. Wash., XI, 1897, p. 146.

Sciurus douglasi mearnsi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 133, fig. 21. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zoöl. Ser.

MEARNS'S CHICKAREE.

- 1-2. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 3-4. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
5. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
6. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

259. *Sciurus fremonti* Audubon & Bachman.

Sciurus fremonti Aud. & Bachm., Quad. N. Am., III, 1853, p. 237. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 66. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 84. Zoöl. Ser.

FREMONT'S CHICKAREE.

- 1-3. Adult ♂ P. Nederland, Colorado. R. T. Young.
- 4-9. Adult ♀ P. Nederland, Colorado. R. T. Young.
- 10-11. Adult ♂ P. Boulder, Colorado. R. T. Young.
12. Adult ♀ P. Boulder, Colorado. R. T. Young.
13. Adult ♂ P. Eagle Creek, Montana. R. T. Young.
14. Adult ♀ P. Eagle Creek, Montana. R. T. Young.

a. Sciurus fremonti mogollonensis (Mearns).

Sciurus hudsonius mogollonensis Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1887-90, p. 277.

Sciurus fremonti mogollonensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 67. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 84. Zoöl. Ser.

ARIZONA CHICKAREE.

- 1-4. Adult ♀ P. White Mountains, Arizona. B. C. Condit.
5. Adult ♀ P. Baker's Butte, Arizona. B. C. Condit.
6. Adult ♀ Exch. General Springs, Mogollon Mts., Arizona.
Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

b. *Sciurus fremonti grahamensis* (Allen).

Sciurus hudsonicus grahamensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 350.

Sciurus fremonti grahamensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 67. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 85. Zoöl. Ser.

GRAHAM MOUNTAINS CHICKAREE.

1. Adult ♂ Paratype. Exch. Graham Mountains, Arizona.
Am. Mus. Nat. Hist. N. Y. W. W. Price.

Genus 103. **Tamias. Chipmunks.**

Tamias Illig., Prodr. Syst. Mamm. et Av., 1811, p. 83. Type
Sciurus striatus Linnæus.

Tenotis Rafn., Am. Month. Mag., 1, 1817, p. 362.

Tamia Less., Man. Mamm., 1827, p. 230.

Eutamias Trouess., Cat. Mamm. Viv. et Foss., Bull. Soc. Études Scien. Angers, x, 1880, pp. 86-87.

Subgenus A. **Eutamias.****260. Tamias dorsalis** Baird.

Tamias dorsalis Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 332.
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 68, fig. 16. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 135. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 85. Zoöl. Ser.

Tamias quadrivittatus pallidus Coues & Yarr., in Wheeler's Rep. Geogr. Expl. & Surv. West of 100th Merid., v, 1876, p. 118.

GILA CHIPMUNK.

- 1-27. Adult ♂ P. Chiricahua Mts., Arizona. B. C. Condit.
- 28-53. Adult ♀ P. Chiricahua Mts., Arizona. B. C. Condit.
54. Adult ♀ P. Santa Catalina Mts., Arizona. B. C. Condit.
55. Adult ♀ P. Graham Mts., Arizona. L. Miller.

56. Adult ♂ Coll. Minaca, Mexico. G. F. Breninger.

57-58. Adult ♀ Coll. Minaca, Mexico. G. F. Breninger.

261. *Tamias townsendi* Bachman.

Tamias townsendii Bachm., Jour. Acad. Nat. Scien. Phil., 1839,

p. 68. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901,

p. 69. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 86. Zool. Ser.

Tamias cooperi Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 334.

TOWNSEND'S CHIPMUNK.

1. Adult ♂ Exch. Mount Lebanon, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.

2. Adult ♀ Exch. Mount Lebanon, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.

3. Adult ♀ Exch. Pacific County, Washington. Am. Mus. Nat. Hist. N. Y. C. P. Streater.

4. Adult ♀ Exch. Kalama, Washington. Am. Mus. Nat. Hist. N. Y. C. P. Streater.

5-20. Adult ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.

21. Juv. ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.

22-39. Adult ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.

40-41. Juv. ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.

42-50. Adult ♂ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.

51-53. Adult ♀ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.

54-55. Adult ♂ Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.

56. Adult ♀ Coll. McDonald's Ranch, Clallam County, Washington. D. G. Elliot.

57-58. Adult ♂ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.

59. Adult — P. Marion County, California. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Tamias townsendi hindsii* (Gray).

Tamias hindsii Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 264.

Tamias townsendi hindsii Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 70. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 86. Zool. Ser.

HINDS'S CHIPMUNK.

- 1-10. Adult ♂ Topotypes. Coll. Nicasio, California. E. Heller.
 11-26. Adult ♀ Topotypes. Coll. Nicasio, California. E. Heller.
 27-30. Adult ♂ P. Big Basin, California. C. A. Coleman.
 31-34. Adult ♀ P. Big Basin, California. C. A. Coleman.
 35. Adult ♂ P. Snow Mts., California. W. W. Price.
 36. Adult ♂ Coll. Point Reyes, California. E. Heller.
 37-38. Adult ♀ Coll. Point Reyes, California. E. Heller.
 39. Adult — P. Big Trees, Santa Cruz Co., California. A. Forrer.

b. *Tamias townsendi pricei* (Allen).

- Tamias pricei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 333.
Tamias townsendi pricei Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 70. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 87. Zoöl. Ser.

PRICE'S CHIPMUNK.

- 1-18. Adult ♂ Paratypes. P. Portola, California. J. Diefenbach.
 19-31. Adult ♀ Paratypes. P. Portola, California. J. Diefenbach.

c. *Tamias townsendi ochrogenys* (Merriam).

- Eutamias townsendii ochrogenys* Merr., Proc. Biol. Soc. Wash., XI,
 1897, p. 206.
Tamias townsendi ochrogenys Elliot, Syn. N. Am. Mamm., F. C. M.
 Pub., II, 1901, p. 71. Zoöl. Ser. *Id.* Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 87. Zoöl.
 Ser.

BUFF-CHEEKED CHIPMUNK.

- 1-5. Adult ♂ Topotypes. Coll. Mendocino, California. E. Heller.
 6-14. Adult ♀ Topotypes. Coll. Mendocino, California. E. Heller.
 15-17. Adult ♂ Coll. Eureka, California. E. Heller.
 18-22. Adult ♀ Coll. Eureka, California. E. Heller.
 23-31. Adult ♂ Coll. Requa, California. E. Heller.
 32-34. Adult ♀ Coll. Requa, California. E. Heller.
 35-40. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
 41-43. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
 44. Adult ♂ Coll. Agness, Oregon. E. Heller.

d. Tamias townsendi littoralis Elliot.

Tamias townsendi littoralis Elliot, Pub. Field Columb. Mus., III, 1903, p. 153. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 87. Zoöl. Ser.

COAST CHIPMUNK.

- 1-4. Adult ♂ Paratypes. Coll. Marshfield, Oregon. E. Heller.
- 5-10. Adult ♀ Type & paratypes. Coll. Marshfield, Oregon. E. Heller.
- 11-13. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 14-15. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 16. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 17-18. Adult ♀ Coll. Florence, Oregon. E. Heller.
- 19. Adult ♀ Coll. Scottsburg, Oregon. E. Heller.

262. *Tamias merriami* (Allen).

Tamias asiaticus merriami Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 176.

Tamias merriami Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 71. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 137. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 88. Zoöl. Ser.

MERRIAM'S CHIPMUNK.

- 1-8. Adult ♂ Coll. Mt. Pinos, Ventura County, California. E. Heller.
- 9-12. Adult ♀ Coll. Mt. Pinos, Ventura County, California. E. Heller.
- 13. Adult ♀ Paratype. Exch. San Bernardino Mts., California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 14-15. Adult ♀ Exch. Smiths Mts., California. Am. Mus. Nat. Hist. N. Y. C. K. Worthern.
- 16. Adult ♂ Exch. Campbell's Ranch, San Diego Co., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 17. Adult ♀ Exch. Campbell's Ranch, San Diego Co., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 18. Adult ♀ Coll. Castac Lake, Fort Tejon, California. E. Heller.

263. *Tamias obscurus* Allen.

Tamias obscurus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 70. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 136, figs. 22, xxx. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 88. Zoöl. Ser.

FIG. XXVII. *TAMIAS OBSCURUS*. LOWER CALIFORNIA CHIPMUNK.

LOWER CALIFORNIA CHIPMUNK.

1. Adult ♂ Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
- 4-5. Adult ♀ Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. A. W. Anthony.
- 6-8. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9-14. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 15-16. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 17-18. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
19. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 20-25. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 26-31. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 32-39. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
40. Adult ♂ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
41. Adult ♀ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
42. Adult ♀ Coll. Aguaje da las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

264. *Tamias nexus* Elliot.

Tamias nexus Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 233.

ALLIED CHIPMUNK.

- 1-3. Adult ♂ Paratypes. Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
 4-5. Adult ♀ Type & paratypes. Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

265. *Tamias quadrimaculatus* Gray.

Tamias quadrimaculatus Gray, Ann. Mag. Nat. Hist., 3rd Ser., XX, 1867, p. 435. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 71. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 88. Zool. Ser. *Tamias macrorhabdotes* Merr., Proc. Biol. Soc. Wash., III, 1886, p. 25, fig. p. 26.

FOUR-BANDED CHIPMUNK.

1. Adult ♂ P. Quincy, California. F. Stephens.
2. Adult ♀ Exch. Red Point, California. Am. Mus. Nat. Hist. N. Y. W. W. Price.
- 3-6. Adult ♂ Exch. Blue Cañon, Placer County, California. Am. Mus. Nat. Hist. N. Y. C. A. Allen.
7. Adult ♀ Exch. Blue Cañon, Placer County, California. Am. Mus. Nat. Hist. N. Y. C. A. Allen.
8. Adult ♀ P. Chaparral, Butte County, California. C. K. Worthern.
9. Adult ♂ P. Modoc County, California. H. Bidwell.
10. Adult ♂ P. Blue Cañon, Placer County, California. C. K. Worthern.
11. Adult ♀ P. Blue Cañon, Placer County, California. C. K. Worthern.
- 12-16. Adult ♂ P. Bear Valley, Mariposa County, California. A. Forrer.
- 17-20. Adult ♀ P. Bear Valley, Mariposa County, California. A. Forrer.
- 21-22. Juv. ♂ P. Bear Valley, California. A. Forrer.

266. *Tamias senex* Allen.

Tamias senex Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 83. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 72. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 89. Zool. Ser.

GRAY CHIPMUNK.

1. Adult ♂ P. Hermit Valley, California. W. W. Price.
- 2-5. Adult ♀ P. Hermit Valley, California. W. W. Price.
6. Adult ♂ P. Bloods, Alpine County, California. W. W. Price.

- 7-8. Adult ♀ P. Bloods, Alpine County, California. W. W. Price.
- 9-11. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
12. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
- 13-14. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
- 15-19. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.
- 20-22. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
- 23-26. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
27. Adult ♀ P. Blue Lake, Humboldt County, California. W. W. Price.
28. Adult ♂ P. Chaparral, Butte County, California. E. Adams.
29. Adult ♀ P. Willow Creek Valley, Lassen County, California. E. Adams.

267. *Tamias speciosus* Allen.

Tamias speciosus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 86. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 72. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 89. Zool. Ser.

SHOWY CHIPMUNK.

- 1-19. Adult ♂ Coll. Bear Valley, San Bernardino Mts., California. E. Heller.
- 20-30. Adult ♀ Coll. Bear Valley, San Bernardino Mts., California. E. Heller.
31. Adult ♂ P. San Jacinto Mts., California. F. Stephens.
32. Adult ♀ Exch. San Bernardino Mts., California. Am. Mus. Nat. Hist. N. Y. F. Stephens.

a. Tamias speciosus inyoensis (Merriam).

Eutamias speciosus inyoensis Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 208.

Tamias callipeplus inyoensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 73. Zool. Ser.

Tamias speciosus inyoensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 89. Zool. Ser.

INYO MOUNTAINS CHIPMUNK.

1. Adult ♂ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.
2. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.

268. *Tamias frater* Allen.

Tamias frater Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 88.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 73.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 90. Zool. Ser.

RELATED CHIPMUNK.

- 1-4. Adult ♂ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
- 5-6. Adult ♀ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
- 7-8. Adult ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
9. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
- 10-14. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 15-17. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 18-20. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
- 21-22. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
23. Adult ♂ P. Echo, Amador County, California. W. W. Price.
- 24-27. Juv. ♂ P. Echo, Amador County, California. W. W. Price.
28. Adult ♀ P. Echo, Amador County, California. W. W. Price.
- 29-33. Adult ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 34-37. Juv. ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 38-41. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 42-49. Juv. ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.

- 50-65. Adult ♂ P. Silver Lake, Amador County, California.
W. W. Price.
- 66-88. Adult ♀ P. Silver Lake, Amador County, California.
W. W. Price.
- 89-91. Juv. ♀ P. Silver Lake, Amador County, California.
W. W. Price.
- 92-94. Juv. ♂ P. Silver Lake, Amador County, California.
W. W. Price.
- 95-96. Juv. ♂ P. Edgewood, Douglas County, Nevada.
W. W. Price.
- 97-100. Juv. ♀ P. Edgewood, Douglas County, Nevada.
W. W. Price.
- 101-102. Adult ♂ P. Bloods, Calaveras County, California.
W. W. Price.
- 103-107. Adult ♀ P. Bloods, Calaveras County, California.
W. W. Price.
108. Juv. ♂ P. Modoc County, California. W. W.
Price.
- 109-110. Juv. ♀ P. Modoc County, California. W. W. Price.
- 111-113. Juv. ♂ P. Woodfords, Alpine County, California.
W. W. Price.
- 114-116. Adult ♂ P. Blue Lake, Alpine County, California.
W. W. Price.
117. Juv. ♂ P. Anderson's Ranch, Douglas County,
Nevada. W. W. Price.
118. Juv. ♀ P. Anderson's Ranch, Douglas County,
Nevada. W. W. Price.
119. Juv. ♀ P. Mt. Siegel, Nevada. W. W. Price.
- 120-125. Adult ♂ P. Pyramid Peak, Eldorado County, Cali-
fornia. W. W. Price.
- 126-130. Juv. ♂ P. Pyramid Peak, Eldorado County, Cali-
fornia. W. W. Price.
- 131-147. Adult ♀ P. Pyramid Peak, Eldorado County, Cali-
fornia. W. W. Price.
- 148-149. Juv. ♀ P. Pyramid Peak, Eldorado County, Cali-
fornia. W. W. Price.

269. *Tamias panamintinus* Merriam.

Tamias panamintinus Merr., Proc. Biol. Soc. Wash., VIII, 1893,
p. 134. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,
p. 74. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.
Indies, F. C. M. Pub., VI, 1905, p. 90. Zool. Ser.

PANAMINT MOUNTAINS CHIPMUNK.

- 1-8. Adult ♂ Coll. Hanopee Cañon, Panamint Mts., California. E. Heller.
 9-18. Adult ♀ Coll. Hanopee Cañon, Panamint Mts., California. E. Heller.
 19-24. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
 25-35. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
 36-41. Adult ♂ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.
 42-47. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.
 48-51. Adult ♂ Coll. Beveridge Cañon, Inyo Mountains, California. E. Heller.
 52-56. Adult ♀ Coll. Beveridge Cañon, Inyo Mountains, California. E. Heller.

270. *Tamias amoenus* Allen.

Tamias amoenus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 90. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 74. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 90. Zool. Ser.

CHARMING CHIPMUNK.

1. Adult ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.
 2-4. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
 5-9. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
 10-24. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.
 25-30. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
 31-32. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
 33. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
 34. Adult ♂ P. Lassen Creek, S. E. of Lancaster, California. W. W. Price.

271. *Tamias caurinus* (Merriam).

Eutamias caurinus Merr., Proc. Acad. Nat. Scien. Phil., 1898, p. 352.

Tamias caurinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 74. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 90. Zoöl. Ser.

NORTHWEST CHIPMUNK.

- 1-19. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
 20-24. Juv. ♂ Coll. Happy Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.
 25-35. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.
 36-37. Juv. ♀ Coll. Happy Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.
 38-40. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
 41-46. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.

272. *Tamias cinereicollis* Allen.

Tamias cinereicollis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 94. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 75. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 90. Zoöl. Ser.

ASH-COLORED CHIPMUNK.

- 1-15. Adult ♂ P. White Mountains, Arizona. W. W. Price.
 16-24. Adult ♀ P. White Mountains, Arizona. W. W. Price.
 25-28. Adult — P. White Mountains, Arizona. W. W. Price.

273. *Tamias quadrivittatus* (Say).

Sciurus quadrivittatus Say, Long's Exped. Rocky Mts., 11, 1823, p. 45.

Tamias quadrivittatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 75. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 138. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 91. Zoöl. Ser.

COLORADO CHIPMUNK.

- 1-6. Adult ♂ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 7-10. Adult ♀ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 11. Adult ♂ Exch. Colorado Springs, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 12-13. Adult ♂ Exch. Three Forks, N. Western Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

14. Adult ♀ Exch. Three Forks, N. Western Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
15. Adult ♂ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
16. Adult ♀ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 17-18. Adult ♂ Exch. Rockwell, Colorado. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
19. Adult ♀ Exch. Rockwell, Colorado. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 20-24. Adult ♂ P. Boulder, Boulder County, Colorado. R. T. Young.
- 25-30. Adult ♀ P. Boulder, Boulder County, Colorado. R. T. Young.
31. Adult ♀ P. Silver Lake, Boulder County, Colorado. R. T. Young.
32. Adult ♀ P. Nederland, Boulder County, Colorado. R. T. Young.
- 33-34. Adult ♂ P. Cuidad, State of Durango, Mexico. A. Forrer.

a. Tamias quadrivittatus luteiventris Allen.

Tamias quadrivittatus luteiventris Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 101. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 92. Zoöl. Ser.

BUFF-BELLIED CHIPMUNK.

- 1-3. Adult ♂ P. Eagle Creek, Montana. E. Thompson Seton.
- 4-5. Adult ♀ P. Eagle Creek, Montana. E. Thompson Seton.
6. Adult ♂ P. Yancey, Yellowstone National Park. E. Thompson Seton.

b. Tamias quadrivittatus felix Rhoads.

Tamias quadrivittatus felix Rhoads, Amer. Nat., xxix, 1895, p. 941. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 92. Zoöl. Ser.

HAPPY CHIPMUNK.

1. Adult ♂ P. Mount Baker Range, British Columbia, Canada. C. K. Worthern.
2. Adult ♀ P. Mount Baker Range, British Columbia, Canada. C. K. Worthern.

c. *Tamias quadrivittatus affinis* Allen.

Tamias quadrivittatus affinis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 103. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 77. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

ALLIED CHIPMUNK.

1-2. Adult ♂ Paratypes. Exch. Ashcroft, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.

d. *Tamias quadrivittatus borealis* (Allen).

Tamias asiaticus borealis Allen, Mon. N. Am. Rod., 1877, p. 793.
Tamias quadrivittatus borealis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 77. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

NORTHERN CHIPMUNK.

- 1-4. Adult ♀ Exch. Glendale, S. Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 5-8. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 9-11. Adult ♀ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 12. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.
- 13. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthen.
- 14. Adult ♀ P. Cariboo, British Columbia, Canada. C. K. Worthen.

e. *Tamias quadrivittatus neglectus* Allen.

Tamias quadrivittatus neglectus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 106. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 78. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

NEGLECTED CHIPMUNK.

- 1-6. Adult ♂ P. Park Siding, Michigan. C. Brandler.
- 7-12. Adult ♀ P. Park Siding, Michigan. C. Brandler.
- 13. Adult ♂ P. Seney, Schoolcraft County, Michigan. T. Surber.
- 14. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 15. Adult ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 16-17. Juv. ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

- 18-19. Adult ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
 20-22. Juv. ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

274. *Tamias hopiensis* (Merriam).

Tamias quadrivittatus gracilis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 91. Zoöl. Ser. (nec Allen.)

Eutamias hopiensis Merr., Proc. Biol. Soc. Wash., XVIII, 1905, p. 165.

HOPi CHIPMUNK.

1. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 2. Adult ♀ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

275. *Tamias minimus* Bachman.

Tamias minimus Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 71. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 78. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 93. Zoöl. Ser.

LEAST CHIPMUNK.

1. Adult ♂ Exch. Pine Ridge Indian Reserv., S. Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
 2. Adult ♀ Exch. Pine Ridge Indian Reserv., S. Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

a. Tamias minimus consobrinus Allen.

Tamias asiaticus var. *pallidus* Allen, Mon. N. Am. Rod., 1877, p. 793. (Part.)

Tamias minimus consobrinus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 112. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 78. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 93. Zoöl. Ser.

RELATED CHIPMUNK.

1. Adult ♀ Exch. Aurora, Carbon County, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
 2-5. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
 6. Adult ♂ P. Billings, Montana. E. Thompson Seton.
 7. Adult ♀ P. Billings, Montana. E. Thompson Seton.

b. *Tamias minimus pictus* Allen.

Tamias minimus pictus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 115. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 79. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 94. Zoöl. Ser.

PAINTED CHIPMUNK.

- 1-6. Adult ♂ P. Mount Siegel, Nevada. W. W. Price.
- 7-8. Juv. ♂ P. Mount Siegel, Nevada. W. W. Price.
- 9-12. Adult ♀ P. Mount Siegel, Nevada. W. W. Price.
- 13-14. Adult — Pres. Petit Lake, Idaho. S. E. Meek.
- 15. Adult ♀ P. Bunch Grass Spring, Madeline Plains, Modoc County, California. F. Stephens.

c. *Tamias minimus alpinus* (Merriam).

Tamias alpinus Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 137.
Tamias minimus alpinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 79. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 94. Zoöl. Ser.

ALPINE CHIPMUNK.

- 1-3. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
- 4-6. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
- 7-13. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 14-16. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 17-21. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 22-23. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 24-26. Adult ♂ Coll. Old Mount Whitney, California. E. Heller.

Subgenus B. *Tamias*.

276. *Tamias striatus* (Linnæus).

Sciurus striatus Linn., Syst. Nat., 1, 1758, p. 64.

Sciurus americanus Gmel., Syst. Nat., 1, 1788, p. 150.

Tamias striatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 80. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 95. Zoöl. Ser.

STRIPED CHIPMUNK.

1. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. W. M. Richardson.
2. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
3. Adult — Exch. Cornwall, New York. Am. Mus. Nat. Hist. N. Y. C. A. Allen.
4. Adult — P. Tamarack Swamp, Pennsylvania. T. Surber.
5. Adult ♀ Exch. Newton, New Jersey. Am. Mus. Nat. Hist. N. Y. G. Lewis.
6. Adult — Exch. Hiskatom, New Jersey. Am. Mus. Nat. Hist. N. Y. L. L. Foster.
- 7-10. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
11. Juv. ♂ P. White Sulphur Springs, West Virginia. T. Surber.
- 12-14. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
15. Juv. ♀ P. Black Mountain Springs, West Virginia. T. Surber.
16. Adult ♂ Pres. Hicksville, Ohio. S. E. Meek.
17. Adult ♂ P. Cedar Rapids, Iowa. G. K. Cherrie.
- 18-19. Adult ♀ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.
- 20-21. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 22-24. Adult ♀ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
25. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Tamias striatus lysteri* (Richardson).

Sciurus (Tamias) lysteri Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 181, pl. 15.

Tamias striatus lysteri Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 80. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 95. Zool. Ser.

LYSTER'S STRIPED CHIPMUNK.

1. Adult ♂ Exch. Stamford, Connecticut. Am. Mus. Nat. Hist. N. Y. C. A. Smith.
2. Adult ♀ Exch. Stamford, Connecticut. Am. Mus. Nat. Hist. N. Y. W. Dutcher.
- 3-4. Adult ♂ Exch. Rutland, Vermont. Am. Mus. Nat. Hist. N. Y. W. M. Richardson.

5. Adult ♂ Exch. Tobique Point, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
6. Adult ♀ Exch. Tobique Point, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 7-15. Adult ♂ Coll. Murray Bay, Prov. Quebec, Canada. T. Surber.
- 16-20. Adult ♀ Coll. Murray Bay, Prov. Quebec, Canada. T. Surber.
- 21-24. Adult ♂ Coll. Trout Creek, Prov. Ontario, Canada. L. Kenkel.
- 25-26. Adult ♂ P. Branchton, Prov. Ontario, Canada. G. F. Dippie.
27. Adult ♀ P. Branchton, Prov. Ontario, Canada. G. F. Dippie.
- 28-30. Adult ♀ Exch. Linwood, Prov. Ontario, Canada. Am. Mus. Nat. Hist. N. Y. S. E. Atkinson.
31. Juv. ♀ Exch. Linwood, Prov. Ontario, Canada. Am. Mus. Nat. Hist. N. Y. S. E. Atkinson.
- 32-35. Adult ♂ Coll. Gravenhurst, Prov. Ontario, Canada. L. Kenkel.
- 36-39. Adult ♀ Coll. Gravenhurst, Prov. Ontario, Canada. L. Kenkel.
- 40-42. Adult — Coll. Gravenhurst, Prov. Ontario, Canada. S. E. Meek.
43. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
44. Adult ♀ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
45. Adult ♀ Coll. Fox Lake, Illinois. L. Pray.

b. Tamias striatus griseus Mearns.

Tamias striatus griseus Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 231. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 81. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 96. Zool. Ser.

GRAY STRIPED CHIPMUNK.

- 1-2. Adult ♂ P. Park Siding, Michigan. C. Brandler.
3. Adult ♂ P. Murphy Lake, Michigan. C. Brandler.
- 4-5. Adult ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 6-8. Adult ♂ Pres. Tomahawk Lake, Wisconsin. H. T. Chace.
9. Adult — Pres. Tomahawk Lake, Wisconsin. H. T. Chace.
- 10-11. Adult ♂ Paratypes. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

- 12-13. Adult ♀ Paratypes. Exch. Fort Snelling, Minnesota.
Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Genus 104. **Citellus. Sperophilus.**

Citellus Oken, Lehrb. der Naturg., Zool., II, 1816, p. 842. Type
Mus citellus Linnæus.

Spermophilus F. Cuv., Dents Mamm., 1825, pp. 160-161, pls.
LV, 255.

Spermatophilus Wagl., Nat. Syst. Amphib., 1830, p. 22.

Citillus Lichten., Darst. neuer oder wenig bekannt. Säugeth.,
Heft. 5, 1827-34, Taf. xxxi, fig. 2.

Colobotis Brandt, Bull. Class. Phys.-Math. Acad. Imp. Scien. St.
Petersb., II, 1844, p. 365.

Otospermophilus Brandt, Bull. Class. Phys.-Math. Acad. Imp.
Scien. St. Petersb., II, 1844, p. 379.

Otocolobus Brandt, Bull. Class. Phys.-Math. Acad. Imp. Scien. St.
Petersb., II, 1844, p. 382.

Ictidomys Allen, Mon. N. Am. Rod., 1877, p. 821.

Spermophilopsis Blasius, Tag. 57ten Vers. Deut. Nat. Aertz.,
1884, p. 324.

Ammospermophilus Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 27.

Xerospermophilus Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 27.

Callospermophilus Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 189.
(note.)

Subgenus A. **Ammospermophilus.**

277. Citellus harrisi (Audubon & Bachman).

Spermophilus harrisii Aud. & Bach., Quad. N. Am., III, 1854,
p. 267, pl. 144, fig. 1. Elliot, Syn. N. Am. Mamm., F. C. M.
Pub., II, 1901, p. 85. Zool. Ser.

Citellus harrisi Elliot, Mamm. Middle Amer. & W. Indies, F. C.
M. Pub., IV, Pt. 1, 1904, p. 141. Zool. Ser. *Id.* Check-L.
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,
p. 96. Zool. Ser.

HARRIS'S SPERMOPHILE.

1-2. Adult ♂ Exch. Fort Verde, Arizona. Am. Mus. Nat. Hist.
N. Y. E. A. Mearns.

3. Juv. ♀ Exch. Fort Verde, Arizona. Am. Mus. Nat. Hist.
N. Y. E. A. Mearns.

4. Adult ♂ P. Fort Lowell, Arizona. Price & Condit.

5-6. Adult ♀ P. Fort Lowell, Arizona. Price & Condit.

278. *Citellus leucurus* (Merriam).

Tamias leucurus Merr., N. Am. Faun., No. 2, 1889, p. 20.

Spermophilus leucurus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 86, fig. 18. Zoöl. Ser.

Citellus leucurus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 142. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 97. Zoöl. Ser.

WHITE-TAILED SPERMOPHILE.

1-7. Adult ♂ Coll. Palm Springs, California. E. Heller.

8-10. Adult ♀ Coll. Palm Springs, California. E. Heller.

11-15. Adult ♂ Coll. Daggett, California. E. Heller.

16-19. Adult ♂ Coll. Whitewater, California. E. Heller.

20-24. Adult ♀ Coll. Whitewater, California. E. Heller.

25-26. Adult ♂ Coll. Morongo Pass, California. E. Heller.

27. Adult ♀ Coll. Morongo Pass, California. E. Heller.

28-30. Adult ♀ Coll. Lone Willow Springs, California. E. Heller.

31. Adult ♂ P. Hesperia, Lancaster Co., California. E. C. Thurber.

32. Adult ♀ P. Hesperia, Lancaster Co., California. E. C. Thurber.

33. Adult ♀ P. Borego Springs, California. F. Stephens.

34. Adult ♂ P. Aguanga, Riverside Co., California. F. Stephens.

35. Adult ♀ P. Walker's Pass, Kern Co., California. F. Stephens.

36-37. Juv. ♂ P. Candelaria, Nevada. J. Rowley.

38-40. Juv. ♀ P. Candelaria, Nevada. J. Rowley.

41-43. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

44. Adult ♀ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

45-46. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

47. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.

48-50. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.

51-53. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.

54. Adult ♀ P. San Felipe Cañon, San Diego Co., California. F. Stephens.

55. Juv. ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

a. *Citellus leucurus cinnamomeus* (Merriam).

Tamias leucurus cinnamomeus Merr., N. Am. Faun., No. 3, 1890, p. 51.

Spermophilus leucurus cinnamomeus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 86. Zoöl. Ser.

Citellus leucurus cinnamomeus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 97. Zoöl. Ser.

CINNAMON-HUED SPERMOPHILE.

1. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♀ Exch. Uncompahgre Indian Reserv., Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Adult ♂ P. Holbrook, Arizona. W. W. Price.

b. *Citellus leucurus peninsulæ* (Allen).

Tamias leucurus peninsulæ Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 197.

Citellus leucurus peninsulæ Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 143, fig. 24. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 97. Zoöl. Ser.

LOWER CALIFORNIA SPERMOPHILE.

- 1-6. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 7-10. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
11. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
12. Adult ♂ Coll. Agua Escondido, Lower California, Mexico. E. Heller.
13. Adult ♀ Coll. Agua Escondido, Lower California, Mexico. E. Heller.

279. *Citellus vinnulus* Elliot.

Citellus vinnulus Elliot, Pub. Field Columb. Mus., III, 1903, p. 241. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 98. Zoöl. Ser.

CHARMING SPERMOPHILE.

1. Adult ♂ Coll. Wild Rose Springs, Panamint Mts., California. E. Heller.
2. Adult ♀ Coll. Wild Rose Springs Panamint Mts., California. E. Heller.

3. Adult ♂ Coll. Coal Kilns, Panamint Mts, California. E. Heller.
- 4-5. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
6. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
- 7-9. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
10. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 11-12. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
13. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
14. Adult ♂ Coll. Mines, Old Cosó, Coso Mountains, California. E. Heller.
15. Adult ♀ Coll. Mines, Old Coso, Coso Mountains, California. E. Heller.
- 16-18. Adult ♂ Paratypes. Coll. Keeler, Owen's Valley, California. E. Heller.
19. Adult ♀ Type. Coll. Keeler, Owen's Valley, California. E. Heller.

280. *Citellus nelsoni* (Merriam).

Spermophilus nelsoni Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 129. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 87. Zoöl. Ser.

Citellus nelsoni Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 99. Zoöl. Ser.

NELSON'S SPERMOPHILE.

- 1-3. Adult ♂ Coll. Rose Station, Fort Tejon, California. E. Heller.
- 4-5. Adult ♀ Coll. Rose Station, Fort Tejon, California. E. Heller.

Subgenus B. *Xerospermophilus*.

a. *Citellus spilosoma macrospilotus* (Merriam).

Spermophilus spilosoma macrospilotus Merr., N. Amer. Faun., No. 4, 1890, p. 38. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 96, fig. 21. Zoöl. Ser.

Citellus spilosoma macrospilotus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 145, fig. 25. Zoöl.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 99. Zoöl. Ser.

SPOTTED SPERMOPHILE.

1. Adult ♂ P. Fairbank, Arizona. B. L. Condit.
2. Adult ♂ P. S-B. Ranch, Arizona. B. L. Condit.
3. Adult — P. Chiricahua Mountains, Arizona. W. W. Price.

281. *Citellus eremonomus* Elliot.

Citellus eremonomus Elliot, Pub. Field Columb. Mus., III, 1903, p. 243. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 101. Zoöl. Ser.

DEATH VALLEY SPERMOPHILE.

- 1-2. Adult ♂ Paratypes. Coll. Furnace Creek, Death Valley, California. E. Heller.
3. Adult ♀ Type. Coll. Furnace Creek, Death Valley, California. E. Heller.

282. *Citellus tereticaudus* (Baird).

Spermophilus tereticaudus Baird, N. Am. Mamm., 1857, p. 315. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 98. Zoöl. Ser.

Citellus tereticaudus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 144. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 102. Zoöl. Ser.

ROUND-TAILED SPERMOPHILE.

- 1-9. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
- 10-18. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.
19. Adult ♂ P. Fort Lowell, Arizona. L. Miller.
- 20-24. Adult ♀ P. Fort Lowell, Arizona. L. Miller.
25. Adult ♀ Exch. Phoenix, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
26. Adult ♀ P. Salt Creek, Colorado Desert, California. F. Stephens.
27. Adult ♂ P. Near Sutton, Colorado Desert, California. F. Stephens.
28. Adult ♂ P. Borego Springs, California. F. Stephens.
29. Adult ♀ P. Borego Springs, California. F. Stephens.
30. Adult ♂ P. Pelican Lake, Colorado Desert, California. F. Stephens.
31. Adult ♀ P. Fish Spring, Colorado Desert, California. F. Stephens.

a. Citellus tereticaudus mohavensis (Merriam).

Spermophilus mohavensis Merr., N. Am. Faun., No. 2, 1889, p. 15. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 98. Zoöl. Ser.

Citellus tereticaudus mohavensis Elliot, Pub. Field Columb. Mus., III, 1903, p. 291. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 102. Zoöl. Ser.

MOHAVE DESERT SPERMOPHILE.

1-23. Adult ♂ Coll. Daggett, Mohave Desert, California. E. Heller.

24-34. Adult ♀ Coll. Daggett, Mohave Desert, California. E. Heller.

283. *Citellus chlorus* Elliot.

Citellus chlorus Elliot, Pub. Field Columb. Mus., III, 1903, p. 242. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 103. Zoöl. Ser.

PALE SPERMOPHILE.

1-6. Adult ♂ Type & paratypes. Coll. Palm Springs, California. E. Heller.

7-9. Adult ♀ Paratypes. Coll. Palm Springs, California. E. Heller.

284. *Citellus mexicanus* (Erxleben).

Sciurus mexicanus Erxl., Syst. Regn. Anim., I, 1777, p. 428.

Citellus mexicanus Licht., Darst. neuer oder wenig bekannt. Säugeth., 1830, pl. 31, fig. 2. (ex Toluca.) Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 146. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 103. Zoöl. Ser.

Spermophilus mexicanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 98. Zoöl. Ser.

MEXICAN SPERMOPHILE.

1-3. Adult ♂ P. Corpus Christi, Texas. G. K. Cherrie.

4. Adult — P. Brownsville, Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

5. Juv. ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

a. Citellus mexicanus parvidens (Mearns).

Spermophilus mexicanus parvidens Mearns, Proc. U. S. Nat. Mus., XVIII, 1896, p. 443. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 99. Zoöl. Ser.

Citellus mexicanus parvidens Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 146. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub. VI, 1905, p. 104. Zoöl. Ser.

SMALL-TOOTHED SPERMOPHILE.

1. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
2. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. Armstrong.

Subgenus C. *Ictidomys*.

285. *Citellus tredecimlineatus* (Mitchill).

Sciurus tridecemlineatus (sic) Mitch., Lond. Med. Repos., N. S., 1821, p. 248.

Arctomys hoodi Sabine, Trans. Linn. Soc., 1822, p. 590, pl. 29.

Spermophilus tridecemlineatus! Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 100, fig. 22. Zoöl. Ser.

Citellus tredecimlineatus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zoöl. Ser.

13-STRIPED SPERMOPHILE.

- 1-8. Adult ♀ P. Jackson Park, Chicago, Ill. W. Brandler.
- 9-17. Adult ♂ Coll. Oakwoods Cemetery, Chicago, Ill. L. Kenkel.
- 18-29. Adult ♀ Coll. Oakwoods Cemetery, Chicago, Ill. L. Kenkel.
30. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 31-32. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
33. Adult ♂ Exch. Douglas County, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 34-38. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 39-42. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
43. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
- 44-45. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 46-48. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
47. Adult ♀ Coll. Braddock, North Dakota. W. E. Snyder.
48. Adult ♂ Coll. Steele, North Dakota. W. E. Snyder.
- 49-53. Adult ♀ Coll. Steele, North Dakota. W. E. Snyder.
- 54-55. Adult ♂ Coll. Minnewaukon, North Dakota. W. E. Snyder.
56. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.
- 57-58. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.

- 59-61. Adult ♂ P. Edmonton, Alberta, Canada. G. F. Dippie.
 62. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
 63-64. Adult — P. Red Deer, Alberta, Canada. G. F. Dippie.
 65-66. Adult ♂ Coll. Fox Lake, Illinois. L. Pray.
 67-68. Adult ♀ Coll. Fox Lake, Illinois. L. Pray.

a. *Citellus tredecimlineatus pallidus* (Allen).

Spermophilus tridecemlineatus! pallidus Allen, Mon. N. Am. Rodent., 1877, p. 872. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 100. Zoöl. Ser.

Citellus tredecimlineatus pallidus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zoöl. Ser.

PALLID SPERMOPHILE.

1. Juv. ♀ Exch. Colorado Springs, Colorado. Am. Mus. Nat. Hist. N. Y. C. A. Smith.

b. *Citellus tredecimlineatus olivaceus* (Allen).

Spermophilus tridecemlineatus! olivaceus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 337. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 100. Zoöl. Ser.

Citellus tredecimlineatus olivaceus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zoöl. Ser.

OLIVACEOUS SPERMOPHILE.

1. Adult ♂ Paratype. Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
 2. Adult ♀ Paratype. Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
 3-4. Adult ♂ P. Boulder, Colorado. R. T. Young.
 5. Adult — Exch. Illinois. Am. Mus. Nat. Hist. N. Y.

c. *Citellus tredecimlineatus parvus* (Allen).

Spermophilus tridecemlineatus! parvus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 337. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 100. Zoöl. Ser.

Citellus tredecimlineatus parvus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zoöl. Ser.

LITTLE SPERMOPHILE.

1. Adult ♀ Paratype. Exch. Uncompahgre Indian Res., Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

d. *Citellus tredecimlineatus texensis* (Merriam).

Spermophilus tridecemlineatus! texensis Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 71. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 101. Zoöl. Ser.

Citellus tredecimlineatus texensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 105. Zoöl. Ser.

TEXAS SPERMOPHILE.

- 1-10. Adult ♂ Coll. Noble, Oklahoma Territory. T. Surber.
- 11-12. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.
- 13-14. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 15-20. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 21. Adult ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 22. Adult ♀ Coll. Arnettville, Oklahoma Territory. T. Surber.

286. *Citellus franklini* (Sabine).

Arctomys franklinii Sabine, Trans. Linn. Soc., 1822, p. 587, pl. 27.

Spermophilus franklini Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 101. Zoöl. Ser.

Citellus franklini Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 105. Zoöl. Ser.

FRANKLIN'S SPERMOPHILE.

- 1-4. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 5-6. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
- 7. Adult ♀ P. Warsaw, Illinois. C. K. Worthern.
- 8. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Subgenus D. *Callospermophilus*.

287. *Citellus lateralis* (Say).

Sciurus lateralis Say, Long's Exped. Rocky Mts., II, 1823, p. 46.

Spermophilus lateralis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 83, fig. 17. Zoöl. Ser.

Citellus lateralis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 105. Zoöl. Ser.

STRIPED SPERMOPHILE.

- 1. Juv. ♂ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 2-6. Adult ♀ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 7. Adult ♀ Exch. Durango, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 8. Juv. — Exch. Mill City, Colorado. Am. Mus. Nat. Hist. N. Y. C. H. Eagle.

9. Adult ♀ Exch. Mill City, Colorado. Am. Mus. Nat. Hist. N. Y. C. H. Eagle.
- 10-11. Adult ♀ P. Boulder County, Colorado. R. T. Young.
12. Adult ♂ Exch. White Mountains, Arizona. Am. Mus. Nat. Hist. N. Y. B. C. Condit.
- 13-15. Adult ♂ P. White Mountains, Arizona. W. W. Price.
- 16-18. Adult ♀ P. White Mountains, Arizona. W. W. Price.
19. Adult ♂ P. Cooley's Ranch, White Mountains, Arizona. J. Diefenbach.
- 20-21. Adult — P. Cooley's Ranch, White Mountains, Arizona. J. Diefenbach.
22. Adult ♂ Exch. Baker's Butte, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
23. Adult ♀ Exch. Baker's Butte, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

288. *Citellus cinerascens* (Merriam).

Tamias cinerascens Merr., N. Am. Faun., No. 4, 1890, p. 20.

Spermophilus cinerascens Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 83. Zool. Ser.

Citellus cinerascens Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 106. Zool. Ser.

ASHY SPERMOPHILE.

- 1-6. Adult ♂ P. National Park, Alberta, Canada. G. F. Dippie.
7. Adult ♀ P. National Park, Alberta, Canada. G. F. Dippie.
8. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.
- 9-10. Adult ♀ P. Banff, Alberta, Canada. G. F. Dippie.
- 11-13. Adult — Pres. Petit Lake, Idaho. S. E. Meek.

289. *Citellus chrysodeirus* (Merriam).

Tamias chrysodeirus Merr., N. Am. Faun., No. 4, 1890, p. 19.

Spermophilus chrysodeirus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 84. Zool. Ser.

Citellus chrysodeirus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 106. Zool. Ser.

GOLDEN-NECK SPERMOPHILE.

- 1-6. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 7-10. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
11. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.
12. Adult ♂ Coll. Little Cottonwood Meadows, Mt. Whitney, California. E. Heller.

- 13-15. Adult ♀ Coll. Little Cottonwood Meadows, Mt. Whitney, California. E. Heller.
16. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 17-19. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 20-21. Adult ♂ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
- 22-23. Adult ♂ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
- 24-25. Adult ♀ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
26. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
27. Adult ♂ P. Chaparral, Butte County, California. C. K. Worthern.
28. Adult ♀ P. Chaparral, Butte County, California. C. K. Worthern.
29. Adult ♀ P. Buck's Ranch, California. C. K. Worthern.
30. Adult ♂ P. Hermit Valley, California. W. W. Price.
- 31-34. Adult ♀ P. Hermit Valley, California. W. W. Price.
- 35-38. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 39-44. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
- 45-51. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
- 52-58. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
- 59-62. Adult ♂ P. Mount Siegel, Nevada. W. W. Price.
- 63-66. Adult ♀ P. Mount Siegel, Nevada. W. W. Price.
- 67-68. Adult ♂ P. Edgewood, Nevada. W. W. Price.
- 69-71. Adult ♀ P. Edgewood, Nevada. W. W. Price.
72. Adult ♀ P. Buck's Ranch, California. F. Stephens.
73. Adult ♀ P. Chaparral, Butte County, California. E. Adams.

a. *Citellus chrysodeirus bernardinus* (Merriam).

Spermophilus chrysodeirus brevicaudus Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 134. (nec Brandt, 1844.)

Spermophilus bernardinus Merr., Science, N. S., VIII, 1898, p. 782.

Spermophilus chrysodeirus bernardinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 84. Zool. Ser.

Citellus chrysodeirus bernardinus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 107. Zoöl. Ser.

SAN BERNARDINO SPERMOPHILE.

1-3. Adult ♂ P. Bear Valley, San Bernardino Mts., California. E. Heller.

4-9. Adult ♀ P. Bear Valley, San Bernardino Mts., California. E. Heller.

10. Adult ♂ P. Bluff Lake, San Bernardino Mts., California. E. Heller.

11-16. Adult ♀ P. Bluff Lake, San Bernardino Mts., California. E. Heller.

290. *Citellus wortmani* (Allen).

Tamias wortmani Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 335.

Spermophilus wortmani Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 84. Zoöl. Ser.

Citellus wortmani Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 107. Zoöl. Ser.

WORTMAN'S SPERMOPHILE.

1-5. Adult ♂ Paratypes. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

6-13. Adult ♀ Paratypes. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

Subgenus E. *Colobotis*.

291. *Citellus parryi* (Richardson).

Arctomys parryi Richard., Append. Parry's Second Voy., 1825, p. 316.

Arctomys parryi var. *phæognatha* Richard., Faun. Bor. Amer., Mamm., I, 1829, p. 161.

Arctomys kennicottii Ross, Canad. Nat. & Geol., 1861, p. 434.

Spermophilus empetra Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 89. Zoöl. Ser. (nec Pallas.)

Citellus parryi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 107. Zoöl. Ser.

PARRY'S SPERMOPHILE.

1-8. Adult ♂ P. Point Barrow, Alaska. E. A. McIlhenny.

9. Adult ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

a. *Citellus parryi kadiacensis* (Allen).

Spermophilus parryi var. *kodiacensis* Allen, Proc. Bost. Soc. Nat. Hist., XVI, 1874, p. 292.

Spermophilus empetra var. *kodiacensis* Allen, Mon. N. Am. Rodent., 1877, p. 839.

Spermophilus empetra kodiacensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 90, fig. 20. Zool. Ser.

Citellus parryi kodiacensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 108. Zool. Ser.

KADIAK ISLAND SPERMOPHILE.

1-7. Adult ♂ Topotypes. Coll. Kadiak Island, Alaska. D. G. Elliot.

8-9. Adult ♀ Topotypes. Coll. Kadiak Island, Alaska. D. G. Elliot.

292. *Citellus barrowensis* (Merriam).

Spermophilus barrowensis Merr., Proc. Wash. Acad. Scien., II, 1900, p. 19. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 91. Zool. Ser.

Citellus barrowensis Elliot, Check L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 110. Zool. Ser.

BARROW'S SPERMOPHILE.

1-5. Adult ♂ Topotypes. P. Point Barrow, Alaska. E. A. McIlhenny.

6-7. Adult ♀ Topotypes. P. Point Barrow, Alaska. E. A. McIlhenny.

293. *Citellus columbianus* (Ord).

Arctomys columbianus Ord, Guth. Geogr., 2nd Am. ed., II, 1815, p. 292.

Spermophilus columbianus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 91. Zool. Ser.

Citellus columbianus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 111. Zool. Ser.

COLUMBIAN SPERMOPHILE.

1-4. Adult ♂ P. National Park, Alberta, Canada. G. F. Dippie.

5. Adult ♀ P. National Park, Alberta, Canada. G. F. Dippie.

6. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

7. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.

8. Adult ♀ P. Banff, Alberta, Canada. G. F. Dippie.

9. Adult ♂ P. Head of Shonsoup River, British Columbia, Canada. A. C. Brookes.

10. Adult ♀ P. Seattle, Washington. A. B. Kibbie.

11. Adult ♂ P. Columbia Falls, Montana. C. K. Worthern.
- 12-13. Adult ♂ Pres. Kalispell, Montana. E. Heller.
14. Adult ♀ Exch. Moscow, Idaho. Am. Mus. Nat. Hist. N. Y. C. M. Warren.

294. *Citellus richardsoni* (Sabine).

Arctomys richardsonii Sabine, Trans. Linn. Soc., 1822, p. 589, pl. 28.

Arctomys (Spermophilus) guttatus Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 162. (nec Temm.)

Spermophilus richardsoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 92. Zoöl. Ser.

Citellus richardsoni Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 111. Zoöl. Ser.

RICHARDSON'S SPERMOPHILE.

1. Adult ♂ P. Forks of Blindman and Red Deer Rivers, Alberta, Canada. G. F. Dippie.
2. Adult ♀ P. Forks of Blindman and Red Deer Rivers, Alberta, Canada. G. F. Dippie.
3. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
4. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.

295. *Citellus townsendi* (Bachman).

Spermophilus townsendii Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 61. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 92. Zoöl. Ser.

Citellus townsendi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 111. Zoöl. Ser.

TOWNSEND'S SPERMOPHILE.

1. Juv. ♀ Exch. Walla Walla, Washington. Washington University. A. B. Kibbie.

296. *Citellus armatus* (Kennicott).

Spermophilus armatus Kennicott, Proc. Acad. Nat. Scien. Phil., 1863, p. 158. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 93. Zoöl. Ser.

Citellus armatus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 112. Zoöl. Ser.

ARMED SPERMOPHILE.

- 1-2. Adult ♂ P. Yellowstone Nat. Park, Montana. E. Thompson Seton.
3. Adult ♀ P. Yellowstone Nat. Park, Montana. E. Thompson Seton.

297. *Citellus elegans* (Kennicott).

Spermophilus elegans Kennicott, Proc. Acad. Nat. Scien. Phil., 1863, p. 158. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 94. Zoöl. Ser.

Spermophilus richardsoni var. *townsendi* Allen, Mon. N. Am. Rod., 1877, p. 848. (nec Bachm.)

Citellus elegans Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

ELEGANT SPERMOPHILE.

- 1-4. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 5-14. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
- 15-16. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 17-19. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
- 20. Adult ♂ Coll. Braddock, North Dakota. W. E. Snyder.
- 21. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
- 22-26. Adult ♀ Coll. Bottineau, North Dakota. W. E. Snyder.
- 27-30. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 31. Adult ♂ Exch. Bitter Creek, Montana. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 32-35. Adult ♀ Exch. Bitter Creek, Montana. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 36-37. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.
- 38-40. Adult — P. Blindman River, Alberta, Canada. G. F. Dippie.
- 41. Adult — P. Red River, Alberta, Canada. G. F. Dippie.

298. *Citellus beldingi* (Merriam).

Spermophilus beldingi Merr., Ann. Acad. Nat. Scien. N. Y., IV, 1888, p. 317. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 94. Zoöl. Ser.

Citellus beldingi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

BELDING'S SPERMOPHILE.

- 1-3. Adult ♂ P. Pyramid Peak, California. W. W. Price.
- 4-13. Adult ♀ P. Pyramid Peak, California. W. W. Price.
- 14-15. Adult ♂ P. Hermit Valley, California. W. W. Price.
- 16-18. Adult ♀ P. Hermit Valley, California. W. W. Price.
- 19-25. Adult ♂ P. Silver Lake, California. W. W. Price.
- 26. Adult ♀ P. Silver Lake, California. W. W. Price.
- 27-37. Adult ♂ P. Bear Valley, California. A. Forrer.
- 38-41. Adult ♀ P. Bear Valley, California. A. Forrer.

299. *Citellus oregonus* (Merriam).

Spermophilus oregonus Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 69. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 94. Zoöl. Ser.

Citellus oregonus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

OREGON SPERMOPHILE.

1-3. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.

4-6. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.

Subgenus F. *Otospermophilus*.

300. *Citellus variegatus* (Erxleben).

Sciurus variegatus Erxl., Syst. Regn. Anim., I, 1777, p. 421.

Citellus variegatus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 148, figs. 27, XXXI. Zoöl. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

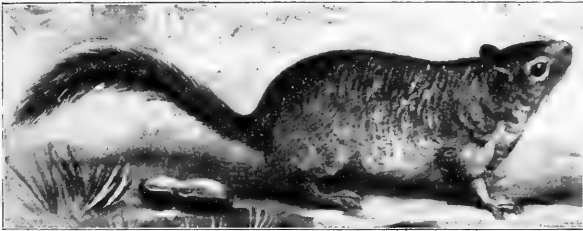


FIG. XXVIII. CITELLUS (OTOSPERMOPHILUS) VARIEGATUS.
LONG-TAILED SPERMOPHILE.

LONG-TAILED SPERMOPHILE.

1-2. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

3. Juv. ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

4. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

5. Adult ♂ Exch. Zapotlan, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

a. *Citellus variegatus grammurus* (Say).

Sciurus grammurus Say, Long's Exp. Rocky Mts., II, 1823, p. 72.

Spermophilus macrourus Bennett, Proc. Zoöl. Soc., 1833, p. 41.

Spermophilus couchii Baird, N. Am. Mamm., 1857, p. 311, pl. 81.

Spermophilus grammurus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 88, fig. 19. Zoöl. Ser. (Part.)

Citellus variegatus grammurus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 149. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

BUSHY-TAILED SPERMOPHILE.

- 1-2. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 3-4. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
5. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 6-7. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 8-10. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 11-13. Adult ♀ P. Boulder, Colorado. R. T. Young.
14. Adult ♂ P. Fremont County, Colorado. R. T. Young.
15. Adult ♀ P. Florida, Colorado. R. T. Young.
16. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.
17. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.
18. Adult ♂ P. Huachuca Mts., Arizona. W. W. Price.
19. Adult ♀ P. Huachuca Mts., Arizona. W. W. Price.
20. Adult ♂ P. Copper Cañon, Arizona. W. W. Price.
21. Adult ♂ P. Fort Verde, Arizona. W. W. Price.
- 22-23. Adult ♂ P. Pinal County, Arizona. W. W. Price.

b. *Citellus variegatus beecheyi* (Richardson).

Arctomys beecheyi Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 170.

Sciurus (Macroxus) californicus Less., Mamm. & Ois. Nouv., 1847, p. 143.

Spermophilus grammurus beecheyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 88. Zoöl. Ser.

Citellus variegatus beecheyi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 114. Zoöl. Ser.

BEECHEY'S SPERMOPHILE.

- 1-3. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 4-6. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
7. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
8. Adult ♂ P. Dulzura, California. W. W. Price.

9. Adult ♂ P. Cedro Place, San Francisquito Creek, California. G. A. Coleman.
 10. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.
 - 11-15. Adult ♂ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
 - 16-18. Adult ♀ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
 - 19-20. Juv. ♀ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
 21. Adult — P. California. Ward's Nat. Scien. Establ., Rochester, N. Y.
 22. Adult ♂ P. Greenwood, Eldorado County, California. A. Forrer.
 23. Adult ♀ P. Santa Cruz, California. A. Forrer.
 - 24-28. Imm. — P. Oakland, California. A. Forrer.
 - 29-31. Imm. — P. Big Trees, California. A. Forrer.
- c. *Citellus variegatus fisheri* (Merriam).
Spermophilus beecheyi fisheri Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 133.
Spermophilus grammurus fisheri Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 88. Zool. Ser.
Citellus variegatus fisheri Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 150. Zool. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 114. Zool. Ser.

FISHER'S SPERMOPHILE.

- 1-4. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
- 5-7. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
- 8-11. Adult ♂ P. Mount Siegel, Douglas County, Nevada. W. W. Price.
12. Adult ♂ Coll. Hot Springs, Mount Whitney, California. E. Heller.
13. Adult ♀ Coll. Hot Springs, Mount Whitney, California. E. Heller.
14. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
- 15-16. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.

- 17-20. Adult ♂ Coll. Fort Tejon, mouth of Canada de las Uvas, California. E. Heller.
- 21-22. Adult ♀ Coll. Fort Tejon, mouth of Canada de las Uvas, California. E. Heller.
23. Adult ♂ Coll. Oro Grande, Mohave Desert, California. E. Heller.
24. Adult ♂ P. Elsinore, Riverside County, California. J. Rowley.
25. Adult ♂ P. Los Angeles, Riverside County, California. J. Rowley.
- 26-32. Adult ♀ P. Los Angeles, Riverside County, California. J. Rowley.
- 33-34. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 35-38. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
39. Adult ♂ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 40-41. Adult ♀ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 42-45. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 46-48. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
49. Adult ♂ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
50. Adult ♂ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 51-53. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
54. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
55. Adult ♂ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 56-57. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 58-59. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 60-61. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
62. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

63. Adult ♂ Coll. Las Eucinas, Lower California, Mexico. E. Heller.

d. Citellus variegatus douglasi (Richardson).

Arctomys (Spermophilus) douglasii Richard., Faun. Bor. Amer., Mamm., I, 1829, p. 172.

Spermophilus grammurus douglasi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 89. Zoöl. Ser.

Citellus variegatus douglasi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 115. Zoöl. Ser.

DOUGLAS'S SPERMOPHILE.

1. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

2-4. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

5-6. Adult ♂ Coll. Eureka, California. E. Heller.

7. Adult ♀ Coll. Eureka, California. E. Heller.

8. Adult ♂ Coll. Petaluma, California. E. Heller.

9. Adult ♀ Coll. Petaluma, California. E. Heller.

e. Citellus variegatus buckleyi (Slack).

Spermophilus buckleyi Slack, Proc. Acad. Nat. Scien. Phil., 1861, p. 314.

Spermophilus grammurus buckleyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 89. Zoöl. Ser.

Citellus variegatus buckleyi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 115. Zoöl. Ser.

BUCKLEY'S SPERMOPHILE.

1. Adult — P. Waldo Co., Texas. S. Stert.

301. *Citellus nesioticus* Elliot.

Citellus nesioticus Elliot, Field Columb. Mus. Pub., III, 1904, p. 263. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 115. Zoöl. Ser.

ISLAND SPERMOPHILE.

1. Adult ♂ Type. P. Santa Catalina Island, California. J. Rowley.

2-3. Adult ♀ Paratypes. P. Santa Catalina Island, California. J. Rowley.

302. *Citellus annulatus* (Audubon & Bachman).

Spermophilus annulatus Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 319.

Citellus annulatus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 151. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 116. Zoöl. Ser.

RING-TAILED SPERMOPHILE.

1. Adult ♂ Exch. Nogueras, State of Colima, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

Genus 105. *Cynomys*. Prairie-dogs.

Cynomys Rafin., Am. Month. Mag., 11, 1817, p. 45. Type *Arctomys ludovicianus* Ord.

Anisonyx Rafin., Am. Month. Mag., 11, 1817, p. 45. (nec Latreille, 1807, Coleopt.)

Monax Warden, Statist. Polit. Hist. Acc. U. S., 1, 1819, pp. 225-228.

303. *Cynomys ludovicianus* (Ord).

Arctomys ludovicianus Ord, Guth. Geogr., 2nd Amer. ed., 11, 1815, p. 292.

Cynomys socialis Rafin., Am. Month. Mag., 11, 1817, p. 45.

Cynomys grisea Rafin., Am. Month. Mag., 11, 1817, p. 45.

Arctomys missouriensis Warden, Desc. États Unis, v, 1820, p. 627.

Arctomys latrans Harlan, Faun. Am., 1825, p. 306.

Cynomys ludovicianus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 102, fig. 23. Zool. Ser. *Id.* Mamm. Middle Amer.



FIG. XXIX. *CYNOMYS LUDOVICIANUS*. PRAIRIE-DOG.

& W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 155, figs. 28, xxxii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 117. Zoöl. Ser.

PRAIRIE-DOG. *Perrito*, *Perrito del Campo* in Mexico.

1. Adult ♂ P. Rockvale, Colorado. C. K. Mason.
- 2-4. Adult ♀ P. Rockvale, Colorado. C. K. Mason.
5. Adult ♂ P. Fremont County, Colorado. C. K. Mason.
6. Adult ♂ Exch. Pine Ridge Ind. Reserv., South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
7. Adult ♂ Exch. Neutral Strip, Indian Territory. Am. Mus. Nat. Hist. N. Y. Richardson.
8. Adult ♂ Exch. Beaver River, Oklahoma Territory. Am. Mus. Nat. Hist. N. Y. Richardson.
- 9-12. Adult — P. Group mounted. Ward's Nat. Scien. Establ., Rochester, N. Y.

304. *Cynomys pyrrhotrichus* Elliot.

Cynomys pyrrhotrichus Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 139.

RED PRAIRIE-DOG.

- 1-2. Adult ♂ Paratypes. Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 3-6. Adult ♀ Type & paratypes. Coll. White Horse Spring, Oklahoma Territory. T. Surber.

305. *Cynomys arizonensis* Mearns.

Cynomys arizonensis Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 305. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 104. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 154. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 118. Zoöl. Ser.

ARIZONA PRAIRIE-DOG.

1. Adult ♀ Exch. Northern part of State of Sonora, Mexico. Am. Mus. Nat. Hist. N. Y. E. Robinette.
2. Adult — Exch. San Diego, State of Chihuahua, Mexico. Am. Mus. Nat. Hist. N. Y. E. Robinette.
3. Adult ♂ P. Huachuca Mountains, Arizona. Price & Condit.
4. Adult ♂ P. San Francisco Mountains, Arizona. F. Stephens.

306. *Cynomys gunnisoni* (Baird).

Spermophilus gunnisoni Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 334.

Cynomys gunnisoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

- II, 1901, p. 103. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 118. Zoöl. Ser.

GUNNISON'S PRAIRIE-DOG.

- 1-3. Adult ♂ P. Fremont County, Colorado. C. K. Mason.
4. Adult ♂ P. Boulder, Colorado. R. T. Young.
5. Adult ♂ Exch. Flagstaff, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Genus 106. **Marmota. Woodchucks.**

Marmota Frisch, Das Nat.-Syst. vierfüß. Thiere, in Tabellen, 9, Tab. Gen., 1775. Type ———?

Mus Linn., Syst. Nat., I, 1758, p. 60. (Part.)

Glis Erxleb., Syst. Regn. Anim., 1777, p. 358. (Part.)

Arctomys Schreb., Säugth., IV, 1782, pp. 721-743, pls. ccvii-ccxi, 1780.

Lipura Illig., Prodr. Syst. Mamm. et Av., 1811, p. 95.

307. Marmota monax (Linnæus).

Mus monax Linn., Syst. Nat., I, 1758, p. 60.

Arctomys monax Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 105, fig. 24. Zoöl. Ser.

Marmota monax Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 119. Zoöl. Ser.

WOODCHUCK.

1. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
2. Adult ♀ Exch. Suffolk County, L. Island, New York. Am. Mus. Nat. Hist. N. Y.
3. Adult ♀ P. Marysville, West Virginia. T. Surber.
4. Adult ♀ Pres. Willow Springs, Illinois. W. J. Gerhard.
5. Adult ♂ Pres. Hicksville, Ohio. H. Meek.
- 6-7. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
8. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 9-12. Adult — Group mounted. P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
13. Adult — P. Saranac Lake, New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

14. Adult — Albino. Pres. ———? E. E. Ayer.

15. Adult ♀ Coll. Fox Lake, Illinois. L. Pray.

a. *Marmota monax canadensis* (Erxleben).

Glis canadensis Erxleb., Syst. Regn. Anim., 1777, p. 363.

Mus empetra Pallas, Nov. Spec. Quad. Glir. Ord., 1778, p. 75.

Arctomys melanopus Kuhl, Beitr. Zool., 1820, p. 64.

Arctomys monax canadensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 106. Zool. Ser.

Marmota monax canadensis Elliot, Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 120. Zool. Ser.

CANADIAN WOODCHUCK.

1-3. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada.
T. Surber.

4-7. Adult ♀ Coll. Murray Bay, Province of Quebec, Canada.
T. Surber.

308. *Marmota flaviventer* (Audubon & Bachman).

Arctomys flaviventer Aud. & Bachm., Proc. Acad. Nat. Scien. Phil., 1841, p. 99. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 106. Zool. Ser.

Marmota flaviventer Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 120. Zool. Ser.

YELLOW-BELLIED WOODCHUCK.

1-2. Juv. ♂ P. Pyramid Peak, Eldorado County, California.
W. W. Price.

3-4. Juv. ♀ P. Pyramid Peak, Eldorado County, California.
W. W. Price.

5-6. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

7-8. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

9-13. Adult ♂ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.

14-16. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.

17. Adult ♂ P. Echo Lake, Eldorado County, California. W. W. Price.

18. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.

19. Adult ♂ P. Boulder, Colorado. R. T. Young.

20. Adult ♀ P. Boulder, Colorado. R. T. Young.

21-22. Adult ♂ P. Midway, Kettle River, British Columbia, Canada. G. F. Dippie.

23. Adult ♀ P. Midway, Kettle River, British Columbia, Canada. G. F. Dippie.
24. Adult ♀ P. Mt. Siegel, Douglas County, Nevada. W. W. Price.
25. Juv. ♂ P. Winter's Mine, Douglas County, Nevada. W. W. Price.
26. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
27. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.
28. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.
- 29-31. Juv. — P. Upper Klamath Lake, Oregon. A. Forrer.

309. *Marmota olympus* (Merriam).

Arctomys olympus Merr., Proc. Acad. Nat. Scien. Phil., 1898, p. 352. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 107. Zoöl. Ser.

Marmota olympus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 121. Zoöl. Ser.

OLYMPIC MOUNTAINS WOODCHUCK.

- 1-4. Adult ♂ Coll. Happy Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
5. Juv. ♂ Coll. Happy Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
6. Adult ♀ Coll. Happy Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
7. Adult ♀ Coll. Boulder Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.

Subfamily III. *Pteromyinæ*.

Genus 107. ***Sciuropterus*. Flying Squirrels.**

Sciuropterus F. Cuv., Dents Mammifères, 1825, pp. 161-162, 225, pl. 56. Type *Sciurus volans* Linnæus.

310. *Sciuropterus alpinus* (Richardson).

Pteromys alpinus Rich., Zoöl. Jour., III, 1828, p. 519.

Pteromys sabrinus var. *β alpinus* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 195, pl. 16.

Sciuropterus volans alpinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 109. Zoöl. Ser.

Sciuropterus alpinus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 121. Zoöl. Ser.

RICHARDSON'S FLYING SQUIRREL.

1. Adult ♂ P. Alberta, Canada. G. F. Dippie.
- a. *Sciuropterus alpinus oregonensis* (Bachman).
Pteromys oregonensis Bachm., Jour. Acad. Nat. Scien. Phil., 1839,
 p. 101.
Sciuropterus volans oregonensis Elliot, Syn. N. Am. Mamm., F.
 C. M. Pub., 11, 1901, p. 110. Zoöl. Ser.
Sciuropterus alpinus oregonensis Elliot, Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 122.
 Zoöl. Ser.

OREGON FLYING SQUIRREL.

1. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- b. *Sciuropterus alpinus olympicus* Elliot.
Sciuropterus alpinus olympicus Elliot, Pub. Field Columb. Mus.,
 1, 1899, p. 225. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 123. Zoöl. Ser.
Sciuropterus volans olympicus Elliot, Syn. N. Am. Mamm., F. C.
 M. Pub., 11, 1901, p. 110. Zoöl. Ser.

OLYMPIC MOUNTAINS FLYING SQUIRREL.

- 1-2. Adult ♂ Type. Coll. Happy Lake, Olympic Mts., Clallam
 County, Washington. D. G. Elliot.
3. Adult ♀ Paratype. Coll. Happy Lake, Olympic Mts., Clallam
 County, Washington. D. G. Elliot.
4. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County,
 Washington. D. G. Elliot.

c. *Sciuropterus alpinus klamathensis* Merriam.

- Sciuropterus alpinus klamathensis* Merr., Proc. Biol. Soc. Wash.,
 XI, 1897, p. 225. Elliot, Check-L. Mamm. N. Amer. Cont.
 & W. Indies, F. C. M. Pub., VI, 1905, p. 123. Zoöl. Ser.
Sciuropterus volans klamathensis Elliot, Syn. N. Am. Mamm., F.
 C. M. Pub., 11, 1901, p. 111. Zoöl. Ser.

KLAMATH FLYING SQUIRREL.

1. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.
- d. *Sciuropterus alpinus fuliginosus* Rhoads.
Sciuropterus alpinus fuliginosus Rhoads, Proc. Acad. Nat. Scien.
 Phil., 1897, p. 321. Elliot, Check-L. Mamm. N. Amer. Cont.
 & W. Indies, F. C. M. Pub., VI, 1905, p. 123. Zoöl. Ser.
Sciuropterus volans fuliginosus Elliot, Syn. N. Am. Mamm., F. C.
 M. Pub., 11, 1901, p. 111. Zoöl. Ser.

DUSKY FLYING SQUIRREL.

1. Adult ♂ Exch. Seattle, Washington. University of Wash-
 ington. E. C. Starks.

2. Adult ♀ P. Cariboo, British Columbia, Canada. C. K. Worthern.

311. *Sciuropterus sabrinus* (Shaw).

Sciurus hudsonius Gmel., Syst. Nat., I, 1788, p. 153. (nec Pallas.)

Sciurus sabrinus Shaw, Gen. Zoöl., I, 1801, p. 157.

Sciurus acrobates Wagn., Schreb. Säugth., Suppl., IV, 1843, p. 231, pl. CCXXII B.

Sciuropterus sabrinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 107. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 124. Zoöl. Ser.

BOREAL FLYING SQUIRREL.

1. Adult ♀ Coll. Lake Edward, Province of Quebec, Canada. L. Kenkel.
2. Adult ♂ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
3. Adult ♀ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
- 4-5. Adult ♂ P. Gooderham, Province of Ontario, Canada. G. F. Dippie.
- 6-8. Adult ♀ P. Gooderham, Province of Ontario, Canada. G. F. Dippie.
9. Adult ♂ P. Portage la Prairie, Manitoba. G. F. Dippie.
- 10-11. Adult ♀ P. Portage la Prairie, Manitoba. G. F. Dippie.
12. Adult ♂ Pres. Canada! C. E. Akeley.

312. *Sciuropterus nigripes* Thomas.

Sciuropterus nigripes Thos., Ann. Mag. Nat. Hist., 6th Ser., XII, 1893, p. 30.

BLACK-FOOTED FLYING SQUIRREL.

1. Adult ♀ P. Palawan, Philippine Islands. E. Gerrard & Sons. A. Everett.

313. *Sciuropterus volans* (Linnæus).

Mus volans Linn., Syst. Nat., I, 1758, p. 63. (*Mus* nec *Sciurus*, p. 88.)

Sciurus volucella Pallas, Nov. Spec. Quad. Glir. Ord., 1778, p. 351.

Sciuropterus volans Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 109, fig. 25. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 158, figs. 29, xxxiii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 125. Zoöl. Ser.



FIG. XXX. SCIUROPTERUS VOLANS. COMMON FLYING SQUIRREL.

COMMON FLYING SQUIRREL.

1. Adult ♂ Exch. Millerplace, Long Island, New York. Am. Mus. Nat. Hist. N. Y. A. Helme.
2. Adult ♂ Exch. Ardsley, New York. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
3. Adult ♂ Exch. Highland Falls, New York. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
4. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
5. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
6. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. C. S. Brimley.
7. Adult ♀ Coll. Apex, North Carolina. T. Surber.
- 8-10. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
- 11-13. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
14. Adult ♀ Coll. St. Marys, Georgia. T. Surber.
15. Adult ♀ Pres. Willow Springs, Illinois. W. J. Gerhard.
16. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
17. Adult — Pres. Kankakee Marshes, Indiana. W. J. Wisdom.
18. Adult ♀ Exch. Ravenna, Ohio. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
19. Adult ♀ P. Knoxville, Iowa. G. K. Cherrie.
20. Adult — Exch. New York. Am. Mus. Nat. Hist. N. Y.

- 21-22. Adult — Group mounted. P. Ward's Nat. Scien. Establ., Rochester, N. Y.
 23-26. Juv. — Group mounted. P. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Sciuropterus volans querceti Bangs.

Sciuropterus volans querceti Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 166. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 109. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 126. Zool. Ser.

FLORIDA FLYING SQUIRREL.

1. Adult ♂ Coll. Enterprise, Florida. T. Surber.
2. Adult ♀ Coll. Enterprise, Florida. T. Surber.
3. Adult — Exch. Tarpon Springs, Florida. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

Family III. **Haplodontidæ. Sewellels.**

Genus 108. **Haplodontia.**

Aplodontia (sic) Richard., Zool. Jour., IV, 1829, p. 334. Type *Aplodontia! leporina* Richardson = *Anisonyx rufa* Rafinesque. *Anisonyx* Rafin., Am. Month. Mag., II, 1817, p. 45. (Part.)

314. Haplodontia rufa (Rafinesque).

Anisonyx rufa Rafin., Am. Month. Mag., II, 1817, p. 45.

Aplodontia! leporina Rich., Zool. Jour., IV, 1829, p. 335. *Id.* Faun. Bor. Amer., Mamm., I, 1829, p. 211, pl. 18c.

Haplodontia rufa Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 112. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 126. Zool. Ser.

RUFIOUS SEWELLEL.

- 1-3. Adult ♂ Exch. Ravenna, Washington. Univ. of Washington. E. C. Starks.
4. Adult ♀ Exch. Ravenna, Washington. Univ. of Washington. E. C. Starks.
5. Adult — P. Tacoma, Washington. Ward's Nat. Scien. Establ., Rochester, N. Y.

315. Haplodontia pacifica (Merriam).

Aplodontia! pacifica Merr., Proc. Biol. Soc. Wash., XIII, 1899, p. 19.

Haplodontia pacifica Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 127. Zoöl.
 Ser.

PACIFIC SEWELLEL.

- 1-2. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 3-6. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 7-12. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 13-22. Adult ♀ Coll. Florence, Oregon. E. Heller.
- 23. Adult ♂ Coll. Agness, Oregon. E. Heller.
- 24. Adult — P. ——— ? Oregon. Ward's Nat. Scien. Es-
 tabl., Rochester, N. Y.

316. *Haplodontia phæa* (Merriam).

Aplodontia! phæa Merr., Proc. Biol. Soc. Wash., XIII, 1899, p. 20.
Haplodontia phæa Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.
 & W. Indies, F. C. M. Pub., VI, 1905, p. 127. Zoöl. Ser.

DARK SEWELLEL.

- 1-5. Adult ♂ Coll. Eureka, California. E. Heller.
- 6. Adult ♀ Coll. Eureka, California. E. Heller.
- 7-8. Adult ♂ Topotypes. Coll. Point Reyes, California. E.
 Heller.
- 9-10. Adult ♀ Topotypes. Coll. Point Reyes, California. E.
 Heller.
- 11. Adult ♀ Coll. Requa, California. E. Heller.
- 12-18. Adult ♀ Coll. Nicasio, California. E. Heller.
- 19. Adult ♂ Topotype. Exch. Point Reyes, California. Am.
 Mus. Nat. Hist. N. Y. C. A. Allen.

317. *Haplodontia olympica* (Merriam).

Aplodontia! olympica Merr., Proc. Biol. Soc. Wash., XIII, 1899,
 p. 20.
Haplodontia olympica Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 127. Zoöl. Ser.

OLYMPIC MOUNTAINS SEWELLEL.

- 1-4. Adult ♂ Coll. Happy Lake, Olympic Mountains, Clallam
 County, Washington. D. G. Elliot.
- 5. Juv. ♂ Coll. Happy Lake, Olympic Mountains, Clallam
 County, Washington. D. G. Elliot.
- 6-8. Adult ♀ Coll. Happy Lake, Olympic Mountains, Clallam
 County, Washington. D. G. Elliot.

9. Adult ♀ Coll. Boulder Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
10. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.

Family IV. **Castoridae. Beavers.**

Genus 109. **Castor.**

Castor Linn., Syst. Nat., I, 1758, p. 58. Type *Castor fiber* Linnæus.

318. **Castor canadensis** Kuhl.

Castor canadensis Kuhl, Beitr. Zool., 1820, p. 64. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 116, fig. 27. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 128. Zool. Ser.

CANADA BEAVER.

1. Adult — P. Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ Coll. Iron County, Michigan. C. E. Akeley.
3. Adult ♀ Coll. Iron County, Michigan. C. E. Akeley.
- 4-6. Juv. — Coll. Iron County, Michigan. C. E. Akeley.

a. *Castor canadensis frondator* Mearns.

Castor canadensis frondator Mearns, Proc. U. S. Nat. Mus., 1897, p. 502. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 116. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 159, figs. 30, xxxiv. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 128. Zool. Ser.

SONORAN BEAVER.

- 1-4. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
5. Juv. — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

b. *Castor canadensis pacificus* Rhoads.

Castor canadensis pacificus Rhoads, Trans. Am. Philos. Soc., 1898, p. 422. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 117. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 129. Zool. Ser.

PACIFIC COAST BEAVER.

1. Adult — P. Kenai Peninsula, Alaska. C. F. Periolat.



FIG. XXXI. CASTOR C. FRONDATOR. SONORAN BEAVER.

319. *Castor fiber* Linnæus.

Castor fiber Linn., Syst. Nat., 1, 1758, p. 58.

BEAVER.

1. Adult — P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family V. Muscardinidæ. Dormice.

Subfamily I. Muscardininæ.

Genus 110. Glis.

Glis Briss., Reg. Anim., 2nd ed., 1762, pp. 13, 113, 118. Type *Glis glis* Brisson = *Sciurus glis* Linnæus.

Myoxus Zimm., Geog. Gesch. Mensch. vierfuss. Thiere, 11, 1780, p. 351.

Myorus Reichenb., Bilderg. Thierw., Heft xvii, 1835, Taf. 65, fig. 8.

320. Glis glis (Linnæus).

Sciurus glis Linn., Syst. Nat., I, 1766, p. 87.

LINNÆUS'S DORMOUSE.

1. Adult — P. Belgium. J. A. Loring.

321. Glis nitidula (Pallas).

Mus nitedula! Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 88.

Id. Zoogr. Rosso-Asiat., I, 1778, p. 179.

Myoxus dryas Schreb., Säugth., IV, 1787, p. 831, pl. 225B.

Myoxus nitela var. F. Cuv., Dict. Scien. Nat., 1823, p. 125.

OAK DORMOUSE.

1. Adult — P. Europe! Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus III. **Graphiurus.**

Graphiurus Smuts, Enum. Mamm. Cap., 1832, p. 32. F. Cuv., Hist.

Nat. Mamm., VII, Tab. Gen. et Method., 1842, No. 254, p. 4.

Type *Graphiurus capensis* Smuts = *Sciurus ocellaris* A. Smith.

Graphiurus Blyth, in Cuv. Anim. Kingd., 1849, p. 111.

Graphidurus Wallace, Geog. Distr. Anim., II, 1876, p. 232.

322. Graphiurus hueti (Rochebrune).

Eliomys hueti Rochbr., Act. Soc. Linn. Bord., VII, 1883, p. 110,
pl. 6, fig. 1.

Graphiurus natglasii Jentink, Notes Leyd. Mus., x, 1888, pp. 38,
39.

HUET'S DORMOUSE.

1. Adult — P. Gold Coast, West Africa. Ward's Nat. Scien.
Establ., Rochester, N. Y.

Family VI. **Muridæ. Rats, Mice, Voles.**Subfamily I. **Hydromyinae.**Genus II2. **Hydromys.**

Hydromys E. Geoff., Ann. Mus. Hist. Nat. Paris, VI, 1805, pp. 81-90,
pls. 35-36. Type ———?

323. Hydromys chrysogaster E. Geoffroy.

Hydromys chrysogaster E. Geoff., Ann. Mus. Hist. Nat. Paris,
VI, 1805, p. 88, pl. 36, fig. A.

GOLDEN-BELLIED WATER RAT.

1. Adult — P. Victoria, New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Hydromys chrysogaster leucogaster* (E. Geoffroy).

- Hydromys leucogaster* E. Geoff., Ann. Mus. Hist. Nat. Paris, vi, 1805, p. 89, pl. 36, figs. B, C, D.

WHITE-BELLIED WATER RAT.

1. Adult — P. Victoria, New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Gerbillinæ.**Genus 113. **Meriones.**

- Meriones** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 82. Type

Dipus meridianus Gmelin. (By elimination.)

- Rhombomys* Wagn., Geleh. Anz. K. Bayer. Akad. Wiss., Münch., xii, 1841, No. 52, p. 421.

324. **Meriones shawi** (Rozet).

- Gerbillus shawi* Rozet, Voy. Rég. Alger, 1, 1833, p. 248.

SHAW'S MOUSE.

1. Adult — P. ——— ? E. Gerrard & Sons.

Genus 114. **Psammomys.**

- Psammomys** Cretzschmar, in Rüppel's Atl. zur Reise nördl. Afrika,

1ste Abth., Zool., Heft xi, 1828, pp. 56-59, Tab. 22-23. Type *Psammomys obesus* Cretzschmar.

325. **Psammomys obesus** Cretzschmar.

- Psammomys obesus* Cretzs., Rüpp. Atl., 1828, p. 58, pl. 22. Lataste, Act. Soc. Linn. Bord., 1885, p. 269. *Id.* Expl. Tunis, 1887, p. 28.

FAT SAND RAT.

1. Adult — P. Damietta, Egypt. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily III. **Murinæ.**Genus 115. **Mus.**

- Mus** Linn., Syst. Nat., 1, 1758, p. 59. Type *Mus rattus* Linnaeus.

326. *Mus rattus* Linnæus.

Mus rattus Linn., Syst. Nat., 1, 1758, p. 61. Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., 11, 1901, p. 117, fig. 28. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 1v, Pt. 1, 1904, p. 163, figs. 31, xxxv. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 129. Zoöl. Ser.

BLACK RAT.

- 1-2. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
- 3-4. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
5. Adult ♀ Coll. Ship Island, Mississippi. F. E. Lutz.
6. Adult ♀ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
7. Adult ♂ P. Yucatan. G. F. Gaumer.
- 8-11. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 12-18. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 19-21. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
22. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

327. *Mus norvegicus* Erxleben.

Mus norvegicus Erxl., Syst. Reg. Anim., 1777, p. 381. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, Append., p. 428. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 1v, Pt. 1, 1904, p. 164. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 129. Zoöl. Ser.

Mus decumanus Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 91. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 117. Zoöl. Ser.

NORWAY RAT.

1. Adult — Exch. New York City. Am. Mus. Nat. Hist. N. Y. G. Burns.
2. Adult ♂ Exch. Central Park, New York City. Am. Mus. Nat. Hist. N. Y.
3. Adult ♀ Exch. Millerplace, Long Island, N. Y. Am. Mus. Nat. Hist. N. Y. A. N. Helme.
4. Adult ♀ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
5. Adult ♀ Pres. Hyde Park, Chicago, Illinois. A. Ridgway.
6. Adult ♀ Exch. Long Island, Philips County, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

7. Adult ♀ Exch. Dominica, West Indies. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
8. Adult ♂ Coll. Central San Domingo. G. K. Cherrie.
- 9-13. Juv. ♀ Coll. Central San Domingo. G. K. Cherrie.
14. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
15. Adult ♂ P. Upsala, Sweden. J. A. Loring.
- 16-17. Adult — P. Mindanao, Philippines.

328. *Mus alexandrinus* I. Geoffroy.

Mus alexandrinus I. Geoff., Descrip. Égypte, II, 1813, p. 733, Atl. pl. v, fig. 1. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 118. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 164. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 129. Zoöl. Ser.

BROWN RAT.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
2. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
3. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
4. Adult ♂ Coll. Enterprise, Florida. T. Surber.
5. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 6-7. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
8. Adult ♀ Exch. Trinidad, Cuba. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
9. Adult ♂ Coll. San Cristobal, San Domingo. G. K. Cherrie.
10. Adult ♀ Hybrid, *M. rattus* and *M. alexandrinus*. Coll. Catara, San Domingo. G. K. Cherrie.
11. Juv. ♀ Coll. Catara, San Domingo. G. K. Cherrie.
12. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 13-14. Juv. ♂ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
15. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

329. *Mus rufescens* Gray.

Mus rufescens Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 585. Bonhote, Proc. Zoöl. Soc., 1900, p. 878.

Mus alexandrinus var. *rufescens* Thos., Proc. Zool. Soc., 1881, p.

534.

RUFOUS RAT.

1. Adult — P. South India! Ward's Nat. Scien. Establ., Rochester, N. Y.

330. *Mus sylvaticus* Linnæus.

Mus sylvaticus Linn., Syst. Nat., 1, 1758, p. 62.

LONG-TAILED FIELD MOUSE.

1. Adult — P. Southern Europe! Ward's Nat. Scien. Establ., Rochester, N. Y.

331. *Mus musculus* Linnæus.

Mus musculus Linn., Syst. Nat., 1, 1758, p. 62. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 118. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 1, 1904, p. 162. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 130. Zool. Ser.

HOUSE MOUSE.

- 1-3. Adult ♂ P. Waterloo County, Province of Ontario, Canada. G. F. Dippie.
 4-5. Adult ♀ P. Waterloo County, Province of Ontario, Canada. G. F. Dippie.
 6. Adult ♀ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
 7. Adult ♂ Exch. New York City. Am. Mus. Nat. Hist. N. Y.
 8. Adult ♀ Exch. New York City. Am. Mus. Nat. Hist. N. Y.
 9-11. Adult ♂ P. Jackson Park, Chicago, Illinois. W. Brandler.
 12. Adult ♀ P. Jackson Park, Chicago, Illinois. W. Brandler.
 13. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 14. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 15. Adult ♂ Coll. Venta Salada, State of Puebla, Mexico. F. E. Lutz.
 16. Adult ♀ Coll. Venta Salada, State of Puebla, Mexico. F. E. Lutz.
 17-18. Adult ♂ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
 19-28. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

- 29-34. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.
- 35-42. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
- 43-47. Adult ♀ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
48. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
49. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
50. Adult ♂ Coll. Catatepec, San Domingo. G. K. Cherrie.
- 51-53. Adult ♀ Coll. Catatepec, San Domingo. G. K. Cherrie.
54. Adult — Pres. Andros Island, Bahamas. C. B. Cory.
55. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 56-57. Adult ♀ P. Fairbank, Arizona. W. W. Price.
58. Adult ♂ P. Show Low, Arizona. W. W. Price.
- 59-60. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
61. Adult ♀ P. Wilcox, Arizona. W. W. Price.
62. Adult ♂ P. Greenhorn Mountains, Colorado. C. K. Mason.
63. Adult ♀ P. Fremont County, Colorado. C. K. Mason.
- 64-65. Adult ♀ P. Los Angeles, California. J. Rowley.
66. Adult ♀ P. Riverside, California. E. Heller.
67. Adult ♂ Coll. Daguerre Point, California. E. Heller.
68. Adult ♂ Coll. Lone Pine, California. E. Heller.
69. Adult ♂ P. Snow Mountains, California. W. W. Price.
70. Adult ♂ P. Portola, California. W. W. Price.

Genus 116. **Uromys.**

Uromys Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 343. Type *Mus macropus* Gray.

332. **Uromys bruijini** Peters & Doria.

Uromys bruijini Peters & Doria, Ann. Mus. Genov., VIII, 1876, p. 336; 1881, p. 704, pl. XVII.

BRUIJN'S RAT.

1. Adult — P. Mt. Gayata, Richardson Range, Queensland, Australia. E. Gerrard & Sons.

Genus 117. **Pogonomys.**

Pogonomys A. Milne-Edw., Compt. Rend., Paris, LXXXV, 1877, p. 1081. Type *Mus (Pogonomys) macrourus* A. Milne-Edwards. *Chiruromys* Thos., Proc. Zool. Soc., 1888, p. 237, figs.

Subgenus A. *Chiruromys*.**333. *Pogonomys lamia* Thomas.***Pogonomys lamia* Thos., Ann. Mus. Genov., XVIII, 1897, p. 615.**SORCERER RAT.**

1. Adult — P. Mt. Gayata, Richardson Range, Queensland, Australia. E. Gerrard & Sons.

Subfamily IV. **Cricetinae.**Genus 118. **Cricetus.****Cricetus** Leske, Anfangs. Naturg., I, 1779, p. 168. Type *Mus cricetus* Linnæus.**334. *Cricetus cricetus* (Linnæus).***Mus cricetus* Linn., Syst. Nat., I, 1758, p. 60.*Cricetus frumentarius* Pall., Zoog. Ross.-Asiat., I, 1811, p. 161.*Cricetus vulgaris* Desm., Nouv. Dict. Hist. Nat., 1819, p. 168.**HAMSTER.**

1. Adult ♂ P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Brunswick, Germany. J. A. Loring.
3. Juv. ♂ P. Brunswick, Germany. J. A. Loring.
- 4-7. Juv. ♀ P. Brunswick, Germany. J. A. Loring.

Genus 119. **Nesomys.****Nesomys** Peters, Sitzungs. Gesell. Naturf. Freunde Berlin, 1870, p. 54. Type *Nesomys rufus* Peters.**335. *Nesomys rufus* Peters.***Nesomys rufus* Peters, Sitzungs. Gesell. Naturf. Freunde Berlin, 1870, p. 54.**RED MADAGASCAR RAT.**

1. Adult ♂ P. Ampilambe, Madagascar. C. I. Forsyth-Major.

Genus 120. **Brachyuromys.****Brachyuromys** Forsyth-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 322. Type *Brachyuromys ramirohitra* Forsyth-Major.

336. *Brachyuromys ramirohitra* Forsyth-Major.

Brachyuromys ramirohitra F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 322.

SHORT-TAILED MADAGASCAR RAT.

1. Adult ♂ P. Ampilambe, Madagascar. C. I. Forsyth-Major.

337. *Brachyuromys betsileoensis* (Bartlett).

Nesomys betsileoensis Bartlett, Proc. Zool. Soc., 1879, p. 770.

BETSILEO RAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 121. *Gymnuromys*.

Gymnuromys Forsyth-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 324. Type *Gymnuromys roberti* Forsyth-Major.

338. *Gymnuromys roberti* Forsyth-Major.

Gymnuromys roberti F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 324.

ROBERT'S MADAGASCAR RAT.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Genus 122. *Eliurus*.

Eliurus A. Milne-Edwards, Ann. Scien. Nat. Paris, 6me. Sér., Zool., xx, 1885, Art. No. 1 bis, p. 1. Type *Eliurus myoxinus* A. Milne-Edwards.

339. *Eliurus minor* Forsyth-Major.

Eliurus minor F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 462.

SMALL MADAGASCAR RAT.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

340. *Eliurus majori* Thomas.

Eliurus majori Thos., Ann. Mag. Nat. Hist., 6th Ser., XVI, 1895, p. 164.

MAJOR'S MADAGASCAR RAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

341. *Eliurus tanala* Forsyth-Major.

Eliurus tanala F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 462.

TANALA RAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 123. **Onychomys.**

Onychomys Baird, N. Am. Mamm., 1857, p. 458. Type *Hypudæus leucogaster* Maximilian.

Hypudæus Max., Reise N. Am., II, 1841, p. 99. (nec Auct.)

342. Onychomys leucogaster (Maximilian).

Hypudæus leucogaster Max., Reise N. Am., II, 1841, p. 99.

Mus missouriensis Aud. & Bach., Quad. N. Amer., II, 1851, p. 327, pl. 100.

Onychomys leucogaster Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 119, fig. 29. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 130. Zoöl. Ser.

WHITE-BELLIED MOLE MOUSE.

1-2. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.

3. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.

4. Adult ♂ P. Dickinson, North Dakota. G. K. Cherrie.

5. Adult ♀ Exch. Pendennis, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

6. Adult ♂ Exch. Perch Rock County, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

7. Adult ♂ Exch. Mt. Beaver River, Indian Territory. Am. Mus. Nat. Hist. N. Y. J. Richardson.

8-9. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.

10-14. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

15. Juv. ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.

16-17. Adult ♂ Coll. Paladura Cañon, Texas. T. Surber.

18. Adult — P. Kansas. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Onychomys leucogaster brevicaudus Merriam.

Onychomys leucogaster brevicaudus Merr., N. Am. Faun., No. 5, 1891, p. 52. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 120. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 130. Zoöl. Ser.

SHORT-TAILED MOLE MOUSE.

1. Adult ♂ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 2-3. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

a. *Onychomys melanophrys pallescens* Merriam.

Onychomys melanophrys pallescens Merr., N. Am. Faun., No. 3; 1890, p. 61. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 166. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 131. Zoöl. Ser.

Onychomys leucogaster pallescens Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 121. Zoöl. Ser.

PALE MOLE MOUSE.

- 1-2. Adult ♂ P. Holbrook, Arizona. W. W. Price.
- 3-4. Adult ♀ P. Holbrook, Arizona. W. W. Price.

343. *Onychomys ramona* Rhoads.

Onychomys ramona Rhoads, Amer. Nat., 1893, p. 833. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 121. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 167. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 132. Zoöl. Ser.

RAMONA MOLE MOUSE.

- 1-2. Adult ♀ P. Herron's Ranch, California. F. Stephens.

344. *Onychomys torridus* (Coues).

Hesperomys (Onychomys) torridus Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 183.

Onychomys torridus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 122. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 167, figs. 32, xxxvi. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 133. Zoöl. Ser.

TROPICAL MOLE MOUSE.

- 1-3. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
- 4-8. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
9. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 10-18. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 19-24. Adult ♀ P. Fairbank, Arizona. W. W. Price.
25. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

345. Onychomys macrotis Elliot.

Onychomys macrotis Elliot, Pub. Field Columb. Mus., III, 1903, p. 155. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 169. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 134. Zoöl. Ser.

LARGE-EARED MOLE MOUSE.

1. Adult ♂ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
2. Adult ♀ Type. Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
3. Adult ♀ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
4. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.

346. Onychomys pulcher Elliot.

Onychomys pulcher Elliot, Pub. Field Columb. Mus., III, 1903, p. 243. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 134. Zoöl. Ser.

BEAUTIFUL MOLE MOUSE.

- 1-3. Adult ♂ Paratypes. Coll. Morongo Pass, San Bernardino Mts., California. E. Heller.
- 4-5. Adult ♀ Type and paratypes. Coll. Morongo Pass, San Bernardino Mts., California. E. Heller.
6. Adult ♂ Coll. Burn's Cañon, California. E. Heller.
7. Adult ♀ Coll. Burn's Cañon, California. E. Heller.
8. Adult ♂ Coll. Daggett, California. E. Heller.
9. Adult ♂ Coll. Lane's Mill, California. E. Heller.
10. Adult ♂ Coll. Warren's Well, California. E. Heller.
11. Juv. ♂ Coll. Arab Spring, Coso Mts., California. E. Heller.
12. Juv. ♀ Coll. Arab Spring, Coso Mts., California. E. Heller.
13. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

Genus 124. **Peromyscus.** Field Mice.

Peromyscus Gloger, Hand-u. Hilfsb. Naturg., I, 1841, pp. xxx, 95.
Type *Peromyscus arboreus* Gloger = *Mus sylvaticus noveboracensis* Fischer.

Calomys Aud. & Bach., Quad. N. Amer., II, 1851, p. 303. (nec Waterhouse, 1837).

Sitomys Fitzing., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LVI, 1867, p. 97.

- Vesperimus* Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 178.
Baiomys True, Proc. U. S. Nat. Mus., xvi, 1894, p. 758.
Trinodontomys Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 257.
Haplomylomys Osgood, Proc. Biol. Soc. Wash., xvii, 1904, p. 53.

Subgenus A. *Baiomys*.**347. *Peromyscus taylori* (Thomas).**

Hesperomys taylori Thos., Ann. Mag. Nat. Hist., 5th Ser., xix, 1887, p. 66.

Peromyscus taylori Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 141. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 135. Zoöl. Ser.

TAYLOR'S MOUSE.

1. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
2. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

a. Peromyscus musculus brunneus Allen & Chapman.

Peromyscus musculus brunneus Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 203. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 176. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 136. Zoöl. Ser.

JALAPA BROWN MOUSE.

1. Adult ♂ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
2. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.
- 3-7. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 8-10. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

Subgenus B. *Haplomylomys*.**348 *Peromyscus eremicus* (Baird).**

Hesperomys eremicus Baird, N. Am. Mamm., 1857, p. 479.
Peromyscus eremicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 136. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 191. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,
VI, 1905, p. 136. Zool. Ser.

DESERT MOUSE.

1. Adult ♂ P. Big Lagrigna, Colorado Desert, California. F. Stephens.
2. Adult ♀ P. New River, Colorado Desert, California. F. Stephens.
3. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 4-12. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 13-19. Adult ♀ Coll. Palm Springs, California. E. Heller.
- 20-24. Adult ♂ Coll. Whitewater, California. E. Heller.
- 25-27. Adult ♀ Coll. Whitewater, California. E. Heller.
- 28-34. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 35-40. Adult ♀ Coll. Morongo Pass, California. E. Heller.
41. Adult ♂ Coll. Warren's Well, California. E. Heller.
42. Adult ♀ Coll. Warren's Well, California. E. Heller.
43. Adult ♂ Coll. Daggett, California. E. Heller.
44. Adult ♀ Coll. Furnace Creek, California. E. Heller.
- 45-47. Adult ♂ Coll. Furnace Creek, California. E. Heller.
- 48-49. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 50-51. Adult ♂ P. La Puerta, San Diego County, California. F. Stephens.
- 52-53. Adult ♀ P. La Puerta, San Diego County, California. F. Stephens.
- 54-55. Adult ♂ P. San Felipe Cañon, San Diego County, California. F. Stephens.
56. Adult ♂ P. San Felipe Valley, San Diego County, California. F. Stephens.
57. Adult ♂ P. Vallecito, California. F. Stephens.
58. Adult ♂ P. Jacumba, California. F. X. Holzner.
- 59-66. Adult ♂ Coll. Cañon Esperanza, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 67-70. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 71-75. Adult ♀ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
76. Adult ♀ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 77-78. Adult ♂ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 79-80. Adult ♀ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

- 81-82. Adult ♂ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 83-84. Adult ♀ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
85. Adult ♂ Coll. Palomar, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 86-87. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 88-89. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
90. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 91-92. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 93-100. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 101-103. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 104-108. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 109-111. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
112. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.

349. *Peromyscus anthonyi* (Merriam).

- Hesperomys anthonyi* Merr., Proc. Biol. Soc. Wash., IV, 1887, p. 5.
- Peromyscus anthonyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 141. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 137. Zoöl. Ser.

ANTHONY'S MOUSE.

1. Adult ♀ Exch. Fort Verde, California. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

350. *Peromyscus californicus* (Gambel).

- Mus californicus* Gambel, Proc. Acad. Nat. Scien. Phil., 1848, p. 78.
- Peromyscus californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 137. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 203. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 137. Zoöl. Ser.

CALIFORNIA MOUSE.

- 1-129. Adult ♂ P. Portola, San Mateo County, California. W. Price.
 130-222. Adult ♀ P. Portola, San Mateo County, California. W. Price.
 223-279. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 280-340. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 341-352. Adult ♂ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
 353-355. Adult ♀ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
 356-362. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.
 363-366. Adult ♀ P. Carmel River, Monterey County, California. W. W. Price.
 367. Adult ♂ P. Pescadero, San Mateo County, California. E. Heller.
 368. Adult — P. Big Basin, California. G. A. Coleman.
 369. Adult — P. La Honda, California. G. A. Coleman.
 370. Juv. — P. San Lorenzo Creek, California. G. A. Coleman.

Subgenus C. *Peromyscus*.351. *Peromyscus metallicola* Elliot.

Peromyscus metallicola Elliot, Pub. Field Columb. Mus., III, 1903, p. 245. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 138. Zoöl. Ser.

MINE HAUNTING MOUSE.

- 1-5. Adult ♂ Type and paratypes. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
 6-7. Adult ♀ Paratypes. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

352. *Peromyscus niveiventris* (Chapman).

Hesperomys niveiventris Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 117.

Peromyscus niveiventris Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 141. Zoöl. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 138. Zoöl. Ser.

WHITE-BELLIED MOUSE.

- 1-2. Adult ♂ Exch. Jupiter Inlet, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
3. Adult ♀ Exch. Jupiter Inlet, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 4-5. Juv. ♂ Exch. Jupiter Inlet, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
6. Adult ♂ Coll. Oak Lodge, Florida. T. Surber.
7. Adult — Coll. Oak Lodge, Florida. T. Surber.
8. Adult ♂ Coll. Opp. Micco, Florida. T. Surber.
9. Adult — Coll. Opp. Micco, Florida. T. Surber.

a. *Peromyscus niveiventris phasma* (Bangs).

Peromyscus phasma Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 199. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 142. Zoöl. Ser.

Peromyscus niveiventris phasma Elliot, Pub. Field Columb. Mus., III, 1901, p. 41. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 138. Zoöl. Ser.

ANASTASIA ISLAND MOUSE.

- 1-11. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 12-25. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.

353. *Peromyscus subgriseus* (Chapman).

Sitomys subgriseus Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 340.

Peromyscus subgriseus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 142. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 139. Zoöl. Ser.

CHAPMAN'S MOUSE.

- 1-7. Adult ♂ Topotypes. Coll. Gainesville, Florida. T. Surber.
- 8-11. Adult ♀ Topotypes. Coll. Gainesville, Florida. T. Surber.

354. *Peromyscus hemionotis* Elliot.

Peromyscus hemionotis Elliot, Pub. Field Columb. Mus., III, 1903, p. 157. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 199. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 139. Zoöl. Ser.

MULE-EARED MOUSE.

1. Adult ♂ Type. Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

355. *Peromyscus oresterus* Elliot.

Peromyscus oresterus Elliot, Pub. Field Columb. Mus., III, 1903, p. 159. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 139. Zoöl. Ser.

MOUNTAIN LOVING MOUSE.

- 1-8. Adult ♂ Paratypes. Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9-12. Adult ♀ Type and paratypes. Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
14. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 15-19. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
20. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts.; Lower California, Mexico. E. Heller.

356. *Peromyscus leucopus* (Rafinesque).

Mus agrarius americanus Kerr, Anim. Kingd., I, 1792, p. 231. (nec Kerr, 1792.)

Musculus leucopus Rafin., Am. Month. Mag., III, 1818, p. 446.

Peromyscus americanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 124, fig. 30. Zoöl. Ser.

Peromyscus leucopus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 492. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zoöl. Ser.

WHITE-FOOTED DEER MOUSE.

1. Adult ♂ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♀ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 3-4. Adult ♂ Exch. Nyack, N. Y. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 5-6. Adult ♀ Exch. Nyack, N. Y. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.

7. Adult ♀ Exch. Millerplace, Suffolk Co., Long Island, N. Y. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
8. Adult ♀ Exch. Stamford, N. Y. Am. Mus. Nat. Hist. N. Y. W. Dutcher.
9. Adult ♂ Exch. Nordhoff, New Jersey. Am. Mus. Nat. Hist. N. Y. Richardson.
10. Adult ♀ Exch. Hackensack Marsh, New Jersey. Am. Mus. Nat. Hist. N. Y. Chapman & Granger.
11. Adult ♀ Exch. Fairview, New Jersey. Am. Mus. Nat. Hist. N. Y. Chapman & Granger.
12. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
13. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
- 14-16. Adult ♂ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 17-19. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
20. Juv. ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 21-23. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
- 24-25. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
- 26-32. Adult ♂ Pres. Hicksville, Ohio. S. E. Meek.
- 33-34. Adult ♀ Pres. Hicksville, Ohio. S. E. Meek.
35. Juv. ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
36. Juv. ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
37. Adult ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 38-40. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
41. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. Brimley.
42. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 43-45. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
- 46-47. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
48. Adult — Pres. Mitchell, Indiana. S. E. Meek.
- 49-51. Adult ♂ P. Park Siding, Iron County, Michigan. C. Brandler.

- 52-53. Adult ♀ P. Park ~~Siding~~ Siding, Iron County, Michigan. C. Brandler.
 54. Adult ♀ Exch. Syracuse, New York. Am. Mus. Nat. Hist. N. Y. M. M. Green.

a. *Peromyscus leucopus noveboracensis* (Fischer).

Mus sylvaticus noveboracensis Fischer, Syn. Mamm., 1829, p. 318.

Cricetus myoides Gapper, Zool. Jour., v, 1830, p. 204, pl. x.

Peromyscus leucopus myodes Rhoads, Proc. Acad. Nat. Scien. Phil., 1897, p. 27.

Peromyscus americanus noveboracensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zool. Ser.

Peromyscus leucopus noveboracensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zool. Ser.

NORTHERN WHITE-FOOTED DEER MOUSE.

1. Juv. ♂ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.

b. *Peromyscus leucopus deserticola* (Mearns).

Hesperomys leucopus deserticolus Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 285.

Peromyscus americanus deserticolus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zool. Ser.

Peromyscus texensis deserticola Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 188. Zool. Ser.

Peromyscus leucopus deserticola Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zool. Ser.

DESERT WHITE-FOOTED MOUSE.

- 1-7. Adult ♂ Coll. Morongo Pass, California. E. Heller.
 8-12. Adult ♀ Coll. Morongo Pass, California. E. Heller.
 13. Adult ♂ Coll. Banning, California. E. Heller.
 14. Adult ♀ Coll. Banning, California. E. Heller.
 15. Adult ♂ Coll. Victor, California. E. Heller.
 16. Adult ♂ Coll. Whitewater, California. E. Heller.
 17-19. Adult ♂ Pres. Bear Valley, California. E. Heller.
 20-21. Adult ♀ Pres. Bear Valley, California. E. Heller.
 22. Adult ♂ Pres. Little Bear Valley, California. E. Heller.
 23. Adult ♀ Pres. San Bernardino Mts., California. E. Heller.
 24. Adult ♂ Pres. San Bernardino Mts., California. E. Heller.

25. Adult ♀ Pres. Julian, California. E. Heller.
26. Adult ♂ Pres. Bluff Lake, California. E. Heller.
27. Adult ♀ Pres. Bluff Lake, California. E. Heller.
28. Adult ♂ Pres. Riverside, California. E. Heller.
29. Adult ♀ Pres. Riverside, California. E. Heller.
- 30-32. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 33-34. Adult ♀ Coll. Palm Springs, California. E. Heller.
35. Adult ♀ Coll. Warren's Well, San Bernardino Mts., California. E. Heller.
36. Adult ♂ Coll. Warren's Well, San Bernardino Mts., California. E. Heller.
37. Adult ♂ Coll. Burn's Cañon, San Bernardino Mts., California. E. Heller.
- 38-43. Adult ♂ Coll. Oro Grande, California. E. Heller.
44. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 45-49. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
50. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
51. Adult ♂ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
- 52-61. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
- 62-69. Adult ♀ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
70. Adult ♂ Coll. Monachee Meadows, Mt. Whitney, California. E. Heller.
- 71-72. Adult ♀ Coll. Monachee Meadows, Mt. Whitney, California. E. Heller.
73. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
74. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 75-82. Adult ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
- 83-86. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
- 87-93. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
94. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

95. Juv. ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
- 96-97. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 98-100. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 101-102. Adult ♂ Coll. Coso Mountains, California. E. Heller.
- 103-105. Adult ♂ Coll. Inyo Mountain, summits E. of Lone Pine, California. E. Heller.
- 106-110. Adult ♀ Coll. Inyo Mountain, summits E. of Lone Pine, California. E. Heller.
- 111-117. Adult ♂ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 118-122. Adult ♀ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 123-128. Adult ♂ Coll. Fort Tejon, mouth of Cañada de las Uvas, California. E. Heller.
- 129-132. Adult ♀ Coll. Fort Tejon, mouth of Cañada de las Uvas, California. E. Heller.
- 133-136. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 137-138. Adult ♂ Coll. Piru Creek, Bailey's Ranch, California. E. Heller.
- 139-140. Adult ♀ Coll. Piru Creek, Bailey's Ranch, California. E. Heller.
- 141-142. Adult ♂ Coll. Lockwood Valley, Mount Pinos, California. E. Heller.
- 143-144. Adult ♀ Coll. Lockwood Valley, Mount Pinos, California. E. Heller.
- 145-146. Adult ♂ Coll. Neenach, California. E. Heller.
- 147-148. Adult ♀ Coll. Neenach, California. E. Heller.
149. Adult ♂ P. Cameron Lake, Colorado Desert, California. F. Stephens.
150. Adult ♂ Pres. Sorrento, California. E. Heller.
- c. *Peromyscus leucopus arizonæ* (Allen).
Sitomys americanus arizonæ Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 321.
Peromyscus americanus arizonæ Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zool. Ser.
Peromyscus texensis arizonæ Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 186. Zool. Ser.
Peromyscus leucopus arizonæ Elliot, Syn. N. Am. Mamm., F. C.

M. Pub., II, 1901, Suppl., p. 492. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zoöl. Ser.

ARIZONA WHITE-FOOTED DEER MOUSE.

- 1-13. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 14-21. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 22-23. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 24-26. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 27-40. Juv. ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 41-43. Juv. ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 44. Adult — P. S-B. Ranch, Arizona. W. W. Price.
- 45. Adult ♀ P. Gouteras, State of Sonora, Mexico. B. C. Condit.

d. *Peromyscus leucopus minnesotæ* Mearns.

Peromyscus leucopus minnesotæ Mearns, Proc. Biol. Soc. Wash., XIV, 1901, p. 154. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 141. Zoöl. Ser.

MINNESOTA WHITE-FOOTED DEER MOUSE.

- 1-2. Adult ♀ Topotypes. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 3. Juv. ♀ Topotype. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

357. *Peromyscus sonoriensis* (Le Conte).

Hesperomys sonoriensis Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 413.

Peromyscus americanus sonoriensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zoöl. Ser.

Peromyscus leucopus sonoriensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 492. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 181, fig. xxxvii. Zoöl. Ser.

Peromyscus sonoriensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 141. Zoöl. Ser.

SONORA WHITE-FOOTED FIELD MOUSE.

- 1-24. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 25-46. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
- 47. Adult ♂ P. Blue Lake, Alpine County, California. W. W. Price.
- 48. Adult ♀ P. Blue Lake, Alpine County, California. W. W. Price.

- 49-135. Adult ♂ P. Mount Siegel, Douglas County, Nevada. W. W. Price.
- 136-238. Adult ♀ P. Mount Siegel, Douglas County, Nevada. W. W. Price.
239. Adult ♀ P. Echo, Colorado County, California. W. W. Price.
- 240-255. Adult ♂ P. Winters Mine, Douglas County, Nevada. W. W. Price.
- 256-262. Adult ♀ P. Winters Mine, Douglas County, Nevada. W. W. Price.
263. Adult ♂ P. Edgewood, Douglas County, Nevada. W. W. Price.
- 264-265. Adult ♀ P. Edgewood, Douglas County, Nevada. W. W. Price.
- 266-273. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
- 274-280. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
- 281-290. Adult ♂ P. Holbrook, Arizona. W. W. Price.
- 291-292. Adult ♀ P. Show Low, Arizona. W. W. Price.
- a. *Peromyscus sonoriensis fulvus* Osgood.
Peromyscus sonoriensis fulvus Osgood, Proc. Biol. Soc. Wash., xvii, 1904, p. 57. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 142. Zoöl. Ser.
Peromyscus leucopus fulvus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 183. Zoöl. Ser.
- FULVOUS FIELD MOUSE.
- 1-12. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 13-20. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
358. *Peromyscus labecula* Elliot.
Peromyscus labecula Elliot, Pub. Field Columb. Mus., iii, 1903, p. 143. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 178. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 142. Zoöl. Ser.
- WHITE-SPOT FIELD MOUSE.
- 1-11. Adult ♂ Type and paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
- 12-25. Adult ♀ Paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

26. Juv. — Paratype. Coll. Ocotlan, State of Michoacan, Mexico. F. E. Lutz.
 27. Adult ♂ Coll. Patzcuaro, State of Jalisco, Mexico. F. E. Lutz.

359. *Peromyscus rufinus* (Merriam).

Hesperomys leucopus rufinus Merr., N. Am. Faun., No. 3, 1890, p. 65, pl. 3.

Peromyscus rufinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 126. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 142. Zool. Ser.

TAWNY FIELD MOUSE.

1. Adult ♂ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♀ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 3-4. Adult ♂ Exch. Aztec, New Mexico. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
5. Adult ♂ Exch. La Plata, New Mexico. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 6-7. Adult ♂ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
8. Juv. ♂ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
9. Adult ♀ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
10. Juv. ♀ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
11. Adult ♂ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 12-13. Adult ♂ Coll. Grand Junction, Colorado. Riggs & Menke.
14. Adult ♀ Coll. Grand Junction, Colorado. Riggs & Menke.
- 15-49. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
- 50-66. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
67. Juv. ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
68. Juv. ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
- 69-77. Adult ♂ P. Graham Mountains, Arizona. W. W. Price.

- 78-81. Adult ♀ P. Graham Mountains, Arizona. W. W. Price.
 82-106. Adult ♂ P. White Mountains, Arizona. W. W. Price.
 107-115. Adult ♀ P. White Mountains, Arizona. W. W. Price.
 116-117. Adult — P. White Mountains, Arizona. W. W. Price.

360. *Peromyscus gossypinus* (Le Conte).

Hesperomys gossypinus! (misprint) Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 411.

Peromyscus gossypinus! Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 126. Zool. Ser.

Peromyscus gossypinus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 143. Zool. Ser.

COTTON TREE MOUSE.

- 1-6. Adult ♂ Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
 7-15. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
 16-17. Adult ♂ Coll. New Berlin, Florida. T. Surber.
 18. Adult — Coll. New Berlin, Florida. T. Surber.
 19. Adult ♀ Coll. St. Charles Creek, Florida. T. Surber.
 20-23. Adult ♂ Coll. Riceboro, Georgia. T. Surber.
 24-25. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
 26. Juv. ♂ Coll. Riceboro, Georgia. T. Surber.
 27. Adult ♀ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.

a. *Peromyscus gossypinus palmarius* Bangs.

Peromyscus gossypinus! palmarius Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 124. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 127. Zool. Ser.

Peromyscus gossypinus palmarius Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 143. Zool. Ser.

FLORIDA FIELD MOUSE.

- 1-2. Adult ♂ Coll. Micco, Florida. T. Surber.
 3. Juv. ♂ Coll. Micco, Florida. T. Surber.
 4-5. Adult ♀ Coll. Micco, Florida. T. Surber.
 6-7. Adult ♂ Coll. E. Penin., opp. Micco, Florida. T. Surber.
 8-9. Adult ♀ Coll. E. Penin., opp. Micco, Florida. T. Surber.
 10-11. Adult ♂ Topotypes. Coll. Oak Lodge, Florida. T. Surber.
 12-13. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
 14-15. Adult ♀ Coll. Tarpon Springs, Florida. T. Surber.

**Gossypinus*, the cotton tree, also *gossypion*, nec *gossypinus!*

- 16-20. Adult ♂ Coll. Crystal River, Florida. T. Surber.
 21-25. Adult ♀ Coll. Crystal River, Florida. T. Surber.
 26-32. Adult ♂ Coll. Enterprise, Florida. T. Surber.
 33-34. Juv. ♂ Coll. Enterprise, Florida. T. Surber.
 35-38. Adult ♀ Coll. Enterprise, Florida. T. Surber.

361. *Peromyscus anastasiæ* Bangs.

Peromyscus anastasiæ! Bangs, Proc. Bost. Soc. Nat. Hist., xxviii, 1898, p. 195.

Peromyscus anastasiæ Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 128. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 143. Zoöl. Ser.

ANASTASIA ISLAND MOUSE.

- 1-5. Adult ♂ Coll. Anastasia Island, Florida. T. Surber.
 6-8. Adult ♀ Coll. Anastasia Island, Florida. T. Surber.
 9. Juv. ♀ Coll. Anastasia Island, Florida. T. Surber.

362. *Peromyscus canadensis* (Miller).

Hesperomys gracilis Le Conte, Proc. Acad. Nat. Scien. Phil., 1855, p. 442. (Indeterminable.)

Hesperomys myoides Baird, N. Am. Mamm., 1857, p. 472. (nec Gapper.)

Sitomys americanus canadensis Miller, Proc. Biol. Soc. Wash., VIII, 1893, p. 55.

Peromyscus canadensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 128. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 144. Zoöl. Ser.

CANADIAN FIELD MOUSE.

- 1-6. Adult ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.
 7-10. Adult ♀ Coll. Murray Bay, Quebec, Canada. T. Surber.
 11. Juv. ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.
 12. Juv. ♀ Coll. Murray Bay, Quebec, Canada. T. Surber.
 13-17. Adult ♂ Coll. Rivière du Loup, Quebec Canada. T. Surber.
 18-19. Adult ♀ Coll. Rivière du Loup, Quebec, Canada. T. Surber.
 20. Juv. ♂ Coll. Salmon Lake, Quebec, Canada. T. Surber.
 21. Adult ♂ Exch. Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 22. Adult ♀ Exch. Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 23. Juv. ♂ Exch. Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

24. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 25-26. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 27. Adult — Exch. Forks of the Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 28-29. Adult ♀ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
 30. Adult ♂ Coll. Trout Creek, Ontario, Canada. L. Kenkel.
 31. Adult ♀ Coll. Trout Creek, Ontario, Canada. L. Kenkel.
 32-33. Adult ♀ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.

363. *Peromyscus texensis* (Woodhouse).

Hesperomys texana! Woodhouse, Proc. Acad. Nat. Scien. Phil., 1853, p. 242.

Peromyscus texensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 186. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 145. Zoöl. Ser.

TEXAS FIELD MOUSE.

1. Adult ♂ *Type of description. Exch. Tejon Creek, Indian Territory. Am. Mus. Nat. Hist. N. Y. Richardson.

a. *Peromyscus texensis gambeli* (Baird).

Hesperomys gambelii Baird, N. Am. Mamm., 1857, p. 464.

Peromyscus texensis gambeli Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 145. Zoöl. Ser.

GAMBEL'S MOUSE.

- 1-53. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
 54-114. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
 115-117. Adult ♂ P. Blue Lake, Alpine County, California. W. W. Price.
 118. Adult ♀ P. Blue Lake, Alpine County, California. W. W. Price.
 119-131. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
 132-151. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.

*Type of this species was preserved in spirits, and the colors could not be given.

- 152-161. Adult ♂ P. Big Trees, Calaveras County, California.
W. W. Price.
162. Adult ♀ P. Big Trees, Calaveras County, California.
W. W. Price.
- 163-171. Adult ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 172-175. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 176-186. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 187-194. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 195-196. Adult ♂ P. Mt. Hamilton, California. W. W. Price.
197. Adult ♂ P. Echo, Eldorado County, California. W. W. Price.
198. Adult ♀ P. Bloods, Calaveras County, California. W. W. Price.
- 199-212. Adult ♂ P. Snow Mountains, Colusa County, California. W. W. Price.
- 213-223. Adult ♀ P. Snow Mountains, Colusa County, California. W. W. Price.
- 224-225. Adult ♂ P. La Honda, San Mateo County, California. W. W. Price.
226. Adult ♀ P. La Honda, San Mateo County, California. W. W. Price.
227. Adult ♂ P. Edgewood, Douglas County, Nevada. W. W. Price.
- 228-233. Adult ♂ Coll. Nicasio, California. E. Heller.
- 234-235. Adult ♀ Coll. Nicasio, California. E. Heller.
- 236-238. Adult ♂ Coll. Petaluma, California. E. Heller.
239. Adult ♀ Coll. Petaluma, California. E. Heller.
- 240-251. Adult ♂ P. Los Angeles, California. J. Rowley.
- 252-253. Adult ♀ P. Los Angeles, California. J. Rowley.
- 254-255. Adult ♂ P. Stanford University, Palo Alto, California. M. P. Anderson.
- 256-257. Adult ♀ P. Stanford University, Palo Alto, California. M. P. Anderson.
- 258-338. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 339-414. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 415-417. Adult — P. Portola, San Mateo County, California. W. W. Price.

b. Peromyscus texensis nebrascensis (Mearns).

Hesperomys leucopus nebrascensis Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 287.

Peromyscus texensis nebrascensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146. Zoöl. Ser.

NEBRASKA FIELD MOUSE.

- 1-2. Adult ♂ Exch. Coral Draw, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Adult ♀ Exch. Coral Draw, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 4-5. Adult ♂ Exch. Spring Creek, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
6. Adult ♂ Exch. Cheyenne River, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 7-8. Adult ♀ Exch. Perch, Rock County, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
9. Adult ♀ Exch. Long Island, Phillips County, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 10-13. Adult ♂ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
14. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

c. Peromyscus texensis arcticus (Mearns).

Hesperomys leucopus arcticus Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 285.

Peromyscus texensis arcticus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 131. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146. Zoöl. Ser.

ARCTIC FIELD MOUSE.

- 1-2. Juv. ♂ P. Kensington, Prince Edward Island, Canada. R. T. Young.
3. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthern.

d. Peromyscus texensis subarcticus Allen.

Peromyscus texanus subarcticus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 15.

Peromyscus texensis subarcticus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 131. Zoöl. Ser. *Id.* Check-L. Mamm.

N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146.
Zool. Ser.

SUBARCTIC FIELD MOUSE.

- 1-3. Adult ♂ Exch. Squaw Creek, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
4. Adult ♀ Exch. Squaw Creek, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 5-6. Adult ♂ Exch. Otto, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
7. Adult ♂ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
8. Adult ♀ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
9. Adult ♂ P. Yellowstone National Park. E. Thompson Seton.
- 10-11. Adult ♀ P. Yellowstone National Park. E. Thompson Seton.
- 12-36. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 37-57. Adult ♀ P. Boulder, Colorado. R. T. Young.
- 58-62. Adult ♂ P. Nederland, Colorado. R. T. Young.
- 63-68. Adult ♀ P. Nederland, Colorado. R. T. Young.
- 69-73. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 74-76. Juv. ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 77-78. Adult ♀ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 79-85. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 86-93. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
94. Adult ♂ P. Okanagon Lake, British Columbia, Canada. G. F. Dippie.
95. Adult ♀ P. Okanagon Lake, British Columbia, Canada. G. F. Dippie.
96. Adult ♂ P. Okanagon Lake, British Columbia, Canada. A. C. Brooks.
97. Adult ♀ P. Okanagon Lake, British Columbia, Canada. A. C. Brooks.

e. Peromyscus texensis thurberi (Allen).

Sitomys americanus thurberi Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 185.

Peromyscus texanus medius Mearns, Proc. U. S. Nat. Mus., 1896, p. 446.

Peromyscus texensis medius Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser.

Peromyscus thurberi Elliot, Pub. Field Columb. Mus., III, 1903, p. 212. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 176. Zoöl. Ser.

Peromyscus texensis thurberi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146. Zoöl. Ser.

THURBER'S FIELD MOUSE.

1. Adult ♀ Exch. Guadalupe Valley, Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. A. W. Anthony.
2. Adult ♂ Paratype. Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
3. Adult ♀ Paratype. Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
4. Adult ♂ Exch. Eucinita, San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
5. Adult ♀ Exch. Ysadora, San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
- 6-13. Adult ♂ Coll. Ensenada, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 14-18. Adult ♀ Coll. Ensenada, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 19-21. Adult ♂ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 22-23. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
24. Adult ♂ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
25. Adult ♀ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
26. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
27. Adult ♀ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 28-29. Adult ♂ Coll. Juncolito Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
30. Adult ♂ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

- 31-34. Adult ♀ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 35-37. Adult ♂ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
38. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
39. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 40-43. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 44-45. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 46-55. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 56-59. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 60-63. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 64-65. Adult ♀ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
66. Adult ♂ Coll. Salado River Cañon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
67. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
68. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.
- 69-77. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 78-79. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 80-82. Adult ♂ P. San Antonio, California. W. W. Price.
83. Juv. ♂ P. San Antonio, California. W. W. Price.
- 84-86. Adult ♀ P. San Antonio, California. W. W. Price.
87. Adult ♂ P. Jamul, California. E. Heller.
88. Adult ♀ P. Cuyamaco, California. E. Heller.
89. Adult ♂ P. San Juan, California. E. Heller.
90. Adult ♀ P. San Juan, California. E. Heller.

364. *Peromyscus akeleyi* Elliot.

Peromyscus akeleyi Elliot, Pub. Field Columb. Mus., I, 1899, p. 226. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 129. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 148. Zoöl. Ser.

AKELEY'S FIELD MOUSE.

- 1-34. Adult ♂ Type and paratypes. Coll. Johnson's Ranch, Elwah River, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 35-42. Juv. ♀ Paratypes. Coll. Johnson's Ranch, Elwah River, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 43-47. Adult ♀ Paratypes. Coll. Johnson's Ranch, Elwah River, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 48-69. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
70. Juv. ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
71. Juv. ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 72-90. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 91-113. Adult ♂ Coll. Boulder Creek, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 114-136. Adult ♀ Coll. Boulder Creek, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 137-146. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 147-148. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

365. *Peromyscus homochroia* Elliot.

Peromyscus homochroia Elliot, Pub. Field Columb. Mus., III, 1903, p. 158. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 148. Zoöl. Ser.

SAN QUENTIN MOUSE.

- 1-8. Adult ♂ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.
- 9-14. Adult ♀ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.
15. Adult ♂ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

366. *Peromyscus gaurus* Elliot.

Peromyscus gaurus Elliot, Pub. Field Columb. Mus., III, 1903, p.

157. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 199. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 148. Zoöl. Ser.

FRISKY MOUSE.

- 1-3. Adult ♂ Paratypes. Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
4-6. Adult ♀ Type and paratypes. Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

367. *Peromyscus catalinæ* Elliot.

- Peromyscus catalinæ* Elliot, Pub. Field Columb. Mus., III, 1903, p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 149. Zoöl. Ser.

CATALINA ISLAND MOUSE.

- 1-7. Adult ♂ Type and paratypes. P. Santa Catalina Island, California. J. Rowley.
8-10. Adult ♀ Paratypes. P. Santa Catalina Island, California. J. Rowley.
11-12. Juv. ♂ Paratypes. P. Santa Catalina Island, California. J. Rowley.
13. Juv. ♀ Paratype. P. Santa Catalina Island, California. J. Rowley.

368. *Peromyscus austerus* (Baird).

- Hesperomys austerus* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 336.

- Peromyscus austerus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 132. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 149. Zoöl. Ser.

TROUBLESOME FIELD MOUSE.

- 1-4. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.
5. Adult ♀ Coll. Grant's Pass, Oregon. E. Heller.
6-9. Adult ♂ Coll. Scottsburg, Oregon. E. Heller.
10. Adult ♀ Coll. Scottsburg, Oregon. E. Heller.
11-24. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
25-29. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
30-34. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
35-41. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
42-44. Adult ♂ Coll. Florence, Oregon. E. Heller.
45-46. Adult ♀ Coll. Florence, Oregon. E. Heller.
47-48. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
49. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
50. Adult ♂ Coll. Agness, Oregon. E. Heller.

- 51-52. Adult ♂ Coll. McCoy, Oregon. E. Heller.
 53-57. Adult ♂ Exch. Campus of the University, Seattle, Washington. Univer. Washington. E. C. Starks.
 58-61. Adult ♀ Exch. Campus of the University, Seattle, Washington. Univer. Washington. E. C. Starks.

369. *Peromyscus perimecurus* Elliot.

Peromyscus perimecurus Elliot, Pub. Field Columb. Mus., III, 1903, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 149. Zoöl. Ser.

LONG-TAILED MOUSE.

- 1-4. Adult ♀ Type and paratypes. Coll. Goldbeach, Oregon. E. Heller.
 5. Adult ♂ Coll. Florence, Oregon. E. Heller.
 6. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
 7. Adult ♀ Coll. Agness, Oregon. E. Heller.

370. *Peromyscus mearnsi* (Allen).

Vesperimus mearnsii Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 300.

Peromyscus mearnsi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 132. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 150. Zoöl. Ser.

MEARNS'S FIELD MOUSE.

1. Adult ♂ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.
 2. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.
 3. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 4-5. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 6. Juv. ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

371. *Peromyscus canus* Mearns.

Peromyscus canus Mearns, Proc. U. S. Nat. Mus., 1896, p. 445. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 132. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 150. Zoöl. Ser.

HOARY FIELD MOUSE.

- 1-8. Adult ♂ Coll. White Horse Springs, Oklahoma Territory. T. Surber.
 9-16. Adult ♀ Coll. White Horse Springs, Oklahoma Territory. T. Surber.

- 17-23. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
 24-25. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
 26. Juv. ♂ Coll. Alva, Oklahoma Territory. T. Surber.
 27. Juv. ♀ Coll. Alva, Oklahoma Territory. T. Surber.
 28-38. Adult ♂ Coll. Noble, Oklahoma Territory. T. Surber.
 39-48. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.
 49-51. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 52. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 53. Adult ♂ Exch. Fort Clarke, Texas. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
 54. Adult ♀ Exch. Fort Clarke, Texas. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
 55. Juv. ♀ Exch. Fort Clarke, Texas. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

372. *Peromyscus boylii* (Baird).

Hesperomys boylii Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 335.

Sitomys gilberti Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 188.

Peromyscus boylii Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 132. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 195. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 150. Zoöl. Ser.

BOYLE'S FIELD MOUSE.

- 1-12. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 13-15. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 16-19. Juv. ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 20-22. Juv. ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 23-39. Adult ♂ P. Snow Mountains, Colusa County, California. W. W. Price.
 40-54. Adult ♀ P. Snow Mountains, Colusa County, California. W. W. Price.
 55-62. Adult ♂ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.
 63-75. Adult ♀ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.

- 76-98. Adult ♂ P. Mt. Hamilton, Monterey County, California.
W. W. Price.
- 99-111. Adult ♀ P. Mt. Hamilton, Monterey County, California.
W. W. Price.
- 112-126. Adult ♂ P. San Antonio, San Bernardino County, California. W. W. Price.
- 127-144. Adult ♀ P. San Antonio, San Bernardino County, California. W. W. Price.

373. *Peromyscus rowleyi* (Allen).

Sitomys rowleyi Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 76.

Peromyscus rowleyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

II, 1901, p. 134. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 151. Zoöl. Ser.

ROWLEY'S FIELD MOUSE.

1. Adult ♂ Paratype. Exch. Nolan's Ranch, San Juan River, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
3. Adult ♂ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y. H. H. Keays.
4. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.
5. Adult ♀ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

a. *Peromyscus rowleyi pinalis* (Miller).

Sitomys rowleyi pinalis Miller, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 331.

Peromyscus rowleyi pinalis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 135. Zoöl. Ser. *Id.* Mamm. Middle Ame.

& W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 189. Zoöl. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.

Pub., VI, 1905, p. 151. Zoöl. Ser.

ROWLEY'S PINE MOUSE.

- 1-18. Adult ♂ P. Huachuca Mts., Arizona. W. W. Price.
- 19-27. Adult ♀ P. Huachuca Mts., Arizona. W. W. Price.
- 28-29. Adult — P. Huachuca Mts., Arizona. W. W. Price.
- 30-47. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.
- 48-59. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.
60. Adult ♀ P. White Mts., Arizona. W. W. Price.
61. Adult ♂ P. Huaravas Mts., State of Sonora, Mexico. W. W. Price.

- 62-64. Adult ♀ *P. Huaravas* Mts., State of Sonora, Mexico. W. W. Price.
 65. Adult ♂ *P. Oposura* Mts., State of Sonora, Mexico. W. W. Price.
 66-67. Adult ♀ *P. Oposura* Mts., State of Sonora, Mexico. W. W. Price.

374. *Peromyscus parasiticus* Elliot.

Peromyscus parasiticus Elliot, Pub. Field Columb. Mus., III, 1903, p. 244. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 151. Zool. Ser.

PARASITE MOUSE.

- 1-4. Adult ♂ Type and paratypes. Coll. Lone Pine, Inyo County, California. E. Heller.
 5-6. Adult ♀ Paratypes. Coll. Lone Pine, Inyo County, California. E. Heller.

a. Peromyscus oreas rubidus Osgood.

Peromyscus oreas rubidus Osgood, Proc. Biol. Soc. Wash., XIV, 1901, p. 193. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 153. Zool. Ser.

REDDISH MOUSE.

- 1-6. Adult ♂ Topotypes. Coll. Mendocino, California. E. Heller.
 7-8. Adult ♀ Topotypes. Coll. Mendocino, California. E. Heller.
 9. Adult ♂ Coll. Point Reyes, California. E. Heller.
 10. Adult ♀ Coll. Point Reyes, California. E. Heller.
 11-15. Adult ♂ Coll. Eureka, California. E. Heller.
 16-20. Adult ♀ Coll. Eureka, California. E. Heller.
 21-26. Adult ♂ Coll. Crescent City, California. E. Heller.
 27. Adult ♀ Coll. Crescent City, California. E. Heller.
 28-38. Adult ♂ Coll. Requa, California. E. Heller.
 39-46. Adult ♀ Coll. Requa, California. E. Heller.

375. *Peromyscus auripectus* (Allen).

Sitomys auripectus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 75.

Peromyscus auripectus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 134. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 153. Zool. Ser.

GOLDEN BREASTED MOUSE.

- 1-3. Adult ♂ *P. Holbrook*, Arizona. W. W. Price.
 4-7. Adult ♀ *P. Holbrook*, Arizona. W. W. Price.

8. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
9. Adult ♀ Exch. Uncompaghre Indian Reserv., Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

376. *Peromyscus stephensi* Mearns.

Peromyscus stephensi Mearns, Proc. U. S. Nat. Mus., 1897, p. 721.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 136.
 Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 190. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 153.
 Zool. Ser.

Peromyscus petraeus Elliot, Pub. Field Columb. Mus., III, 1903, p. 244. Zool. Ser.

STEPHENS'S MOUSE.

- 1-3. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
- 4-8. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.
- 9-13. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 14-16. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
17. Adult ♂ Coll. Bryan Mine, Coso Mts., California. E. Heller.
18. Adult ♀ Coll. Bryan Mine, Coso Mts., California. E. Heller.
- 19-21. Adult ♂ Coll. Lone Willow Spring, Panamint Mts., California. E. Heller.
- 22-26. Adult ♀ Coll. Copper City, Panamint Mts., California. E. Heller.
- 27-29. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
30. Adult ♀ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
- 31-33. Adult ♂ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
- 34-36. Adult ♀ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
37. Adult ♀ Coll. Emigrant Spring, Panamint Mts., California. E. Heller.
38. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.

39. Adult ♂ Coll. Daggett, California. E. Heller.
 40-42. Adult ♂ Coll. Victor, California. E. Heller.
 43-44. Adult ♀ Coll. Victor, California. E. Heller.
 45-46. Adult ♂ Coll. Old Woman's Spring, California. E. Heller.
 47. Adult ♀ Coll. Warren's Well, San Bernardino Mts., California. E. Heller.
 48. Adult ♂ Coll. Burn's Cañon, San Bernardino Mts., California. E. Heller.
 49-52. Adult ♂ Coll. Oro Grande, California. E. Heller.
 53-56. Adult ♀ Coll. Oro Grande, California. E. Heller.
 57. Adult ♂ Coll. Morongo Pass, California. E. Heller.
 58-61. Adult ♂ Coll. Palm Springs, California. E. Heller.
 62-64. Adult ♀ Coll. Palm Springs, California. E. Heller.
 65. Adult ♂ P. San Felipe Valley, California. F. Stephens.
 66. Adult ♀ P. San Felipe Valley, California. F. Stephens.
 67. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
 68. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
 69. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.

377. *Peromyscus attwateri* Allen.

Peromyscus attwateri Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 330. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 135. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 154. Zoöl. Ser.

ATTWATER'S FIELD MOUSE.

- 1-8. Adult ♂ Coll. Dougherty, Indian Territory. T. Surber.
 9. Juv. ♂ Coll. Dougherty, Indian Territory. T. Surber.
 10-21. Adult ♀ Coll. Dougherty, Indian Territory. T. Surber.
 22. Adult ♂ Paratype. Exch. Turtle Creek, Kerr County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 23. Adult ♀ Paratype. Exch. Turtle Creek, Kerr County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 24. Juv. ♂ Paratype. Exch. Turtle Creek, Kerr County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

378. *Peromyscus fraterculus* (Miller).

Vesperimus fraterculus Miller, Amer. Nat., xxvi, 1892, p. 261.

Peromyscus fraterculus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 136. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 184. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 155. Zoöl. Ser.

RELATED WHITE-FOOTED MOUSE.

- 1-2. Adult ♂ P. Jamul Ranch, San Diego County, California. F. Stephens.
- 3-4. Adult ♀ P. Jamul Ranch, San Diego County, California. F. Stephens.
5. Adult ♂ Topotype. P. Dulzura, San Diego County, California. F. Stephens.
6. Adult ♂ P. San Diego, California. F. Stephens.
7. Adult ♀ P. Aguanga, Riverside County, California. F. Stephens.
- 8-11. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
12. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 13-17. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
- 18-19. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.
20. Adult ♂ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
21. Adult ♀ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
22. Adult ♀ Coll. Salado River Cañon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 23-25. Adult ♂ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 26-29. Adult ♀ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
30. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 31-32. Adult ♀ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 33-36. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 37-39. Adult ♂ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.
- 40-42. Adult ♀ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.

379. *Peromyscus major* (Rhoads).

Sitomys major Rhoads, Amer. Nat., xxvii, 1893, p. 831.

Peromyscus major Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 11, 1901, p. 137. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 155. Zoöl. Ser.

SQUIRREL INN MOUSE.

- 1-2. Adult ♂ P. Cuyamaco, San Diego County, California. E. Heller.
- 3-4. Juv. ♀ P. Cuyamaco, San Diego County, California. E. Heller.
- 5-6. Adult ♂ P. Dulzura, San Diego County, California. E. Heller.
7. Adult ♂ P. Oak Grove, San Diego County, California. E. Heller.
8. Adult ♀ P. Julian, San Diego County, California. E. Heller.
- 9-10. Adult ♀ P. Squirrel Inn, San Bernardino Mts., California. E. Heller.
- 11-12. Adult ♀ Exch. Santa Ysabel, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.

380. *Peromyscus herroni* (Rhoads).

Sitomys herronii Rhoads, Amer. Nat., xxvii, 1893, p. 832.
Peromyscus herroni Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 11, 1901, p. 137. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 155. Zoöl. Ser.

HERRON'S FIELD MOUSE.

- 1-3. Adult ♂ P. Aguanga, Riverside County, California. F. Stephens.
4. Adult ♀ P. Aguanga, Riverside County, California. F. Stephens.

381. *Peromyscus insignis* Rhoads.

Peromyscus insignis Rhoads, Proc. Acad. Nat. Scien. Phil., 1895,
 p. 33. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p.
 138. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C.
 M. Pub., IV, Pt. 1, 1904, p. 203. Zoöl. Ser. *Id.* Check-L.
 Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,
 p. 155. Zoöl. Ser.

SACHEM, OR CHIEF MOUSE.

1. Adult ♀ P. Santa Ysabel, San Diego County, California. F. Stephens.
- 2-4. Adult ♂ Topotypes. P. Dulzura, San Diego County, California. F. Stephens.
5. Adult ♀ Topotype. P. Dulzura, San Diego County, California. F. Stephens.

6. Adult ♀ P. Jamul Ranch, San Diego County, California. F. Stephens.
- 7-8. Adult ♂ P. Witch Creek, San Diego County, California. F. Stephens.
- 9-10. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
11. Adult ♂ Coll. Juncolito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 12-15. Adult ♂ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 16-19. Adult ♀ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
20. Adult ♀ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 21-22. Adult ♂ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 23-24. Adult ♀ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
25. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

382. *Peromyscus dyselius* Elliot.

Peromyscus dyselius Elliot, Pub. Field Columb. Mus., 1, 1898, p. 207. Zool. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 138. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 156. Zool. Ser.

BLACKISH FIELD MOUSE.

- 1-19. Adult ♂ Type and paratypes. P. Portola, California. W. W. Price.
- 20-29. Adult ♀ Paratypes. P. Portola, California. W. W. Price.
- 30-36. Adult ♂ P. Palo Alto, California. E. Heller.
- 37-38. Adult ♀ P. Palo Alto, California. E. Heller.
39. Adult — P. La Honda, Pescadero Creek, California. G. A. Coleman.
- 40-41. Adult — P. Sevates Ranch, San Lorenzo Creek, California. G. A. Coleman.
42. Adult ♂ P. Big Basin, California. G. A. Coleman.
- 43-44. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.

383. *Peromyscus floridanus* (Chapman).

Hesperomys floridanus Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 117.

Peromyscus floridanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

II, 1901, p. 138. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 156. Zoöl. Ser.

FLORIDA FIELD MOUSE.

- 1-3. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 4-6. Adult ♀ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 7-10. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 11-13. Adult ♀ Coll. Enterprise, Florida. T. Surber.
- 14-16. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 17-21. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 22-24. Adult ♂ Coll. Micco, Florida. T. Surber.
- 25-30. Adult ♀ Coll. Micco, Florida. T. Surber.
- 31. Adult ♂ Coll. Citronelle, Florida. T. Surber.
- 32-33. Adult ♀ Coll. Citronelle, Florida. T. Surber.
- 34. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
- 35. Adult ♀ Coll. Crystal River, Florida. T. Surber.

384. *Peromyscus spicilegus* Allen.

Peromyscus spicilegus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 50. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 179. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 156. Zoöl. Ser.

JALISCO SMALL-EARED MOUSE.

- 1-12. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 13-19. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

385. *Peromyscus montipinoris* Elliot.

Peromyscus montipinoris Elliot, Pub. Field Columb. Mus., III, 1904, p. 264. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 157. Zoöl. Ser.

MOUNT PINOS MOUSE.

- 1. Adult ♂ Type. Coll. Mount Pinos, Lockwood Valley, California. E. Heller.
- 2. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 3. Adult ♀ Coll. Fort Tejon, California. E. Heller.

386. *Peromyscus lasius* Elliot.

Peromyscus lasius Elliot, Pub. Field Columb. Mus., III, 1904, p.

265. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 157. Zoöl. Ser.

WOOLLY MOUSE.

- 1-13. Adult ♂ Paratypes. Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
 14-15. Adult ♀ Type and paratypes. Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
 16-17. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
 18. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
 19-23. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
 24-29. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.

387. *Peromyscus difficilis* (Allen).

Vesperimus difficilis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 298.

Peromyscus difficilis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 193. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 158. Zoöl. Ser.

TROUBLESOME MOUSE.

- 1-14. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.
 15-20. Adult ♀ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.
 21. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
 22. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

388. *Peromyscus sagax* Elliot.

Peromyscus sagax Elliot, Pub. Field Columb. Mus., III, 1903, p. 142. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 194. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 158. Zoöl. Ser.

LA PALMA FIELD MOUSE.

1. Adult ♂ Type. Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.
 2-5. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

389. *Peromyscus truei* (Shufeldt).

Hesperomys truei Shufeldt, Proc. U. S. Nat. Mus., 1886, p. 407, pl. XXI, figs. 1, 5, 8.

Peromyscus truei Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 139. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 159. Zoöl. Ser.

TRUE'S MOUSE.

1-7. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.

8-16. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.

17. Adult ♂ P. Mount Siegel, Douglas County, Nevada. W. W. Price.

a. Peromyscus truei nasutus (Allen).

Vesperimus nasutus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 299.

Peromyscus truei nasutus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 139. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 159. Zoöl. Ser.

LONG-NOSED MOUSE.

1-6. Adult ♂ P. Boulder, Colorado. R. T. Young

7-12. Adult ♀ P. Boulder, Colorado. R. T. Young.

390. *Peromyscus martirensis* (Allen).

Sitomys martirensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 187.

Peromyscus martirensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 189. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 159. Zoöl. Ser.

SAN PEDRO MARTIR MOUNTAINS MOUSE.

1-2. Adult ♀ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

3. Adult ♂ Coll. Piñon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

4. Adult ♀ Coll. Piñon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

5-8. Adult ♂ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

9-13. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

14-16. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

- 17-21. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 22-25. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 26-28. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 29-30. Adult ♂ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 31-35. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 36-42. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 43-44. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 45-46. Adult ♂ Coll. Agua Escondido, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 47-48. Adult ♀ Coll. Agua Escondido, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 49-57. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 58-65. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 66-68. Adult ♂ Coll. Palomar, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 69-71. Adult ♀ Coll. Palomar, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
72. Adult ♀ Coll. Calaboza, Hanson Laguna Mts., Lower California, Mexico. E. Heller.

391. *Peromyscus nuttalli* (Harlan).

Arvicola nuttalli Harlan, Am. Month. Jour. Geol. & Nat. Scien. Phil., 1832, p. 446.

Mus (Calomys) aureolus Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 302.

Peromyscus nuttalli Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 140. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 160. Zoöl. Ser.

NUTTALL'S GOLDEN MOUSE.

- 1-2. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 3-4. Adult ♀ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.

5. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
- 6-7. Adult ♂ Coll. Roanoke Rapids, North Carolina. T. Surber.
- 8-9. Adult ♀ Coll. Roanoke Rapids, North Carolina. T. Surber.
- 10-11. Juv. ♂ Coll. Roanoke Rapids, North Carolina. T. Surber.
- 12-18. Adult ♂ Coll. Apex, North Carolina. T. Surber.
- 19-20. Adult ♀ Coll. Apex, North Carolina. T. Surber.
- 21-28. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
29. Juv. ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
- 30-32. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
- 33-35. Adult ♂ Coll. Catawba, South Carolina. T. Surber.

392. *Peromyscus michiganensis* (Audubon & Bachman).

Mus michiganensis Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 304.

Peromyscus michiganensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 140. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 160. Zool. Ser.

MICHIGAN FIELD MOUSE.

1. Adult ♂ Exch. Denver, Indiana. Am. Mus. Nat. Hist. N. Y. C. F. Fite.
2. Adult ♀ Exch. Denver, Indiana. Am. Mus. Nat. Hist. N. Y. C. F. Fite.
3. Adult ♀ P. Knoxville, Iowa. G. K. Cherrie.
4. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
5. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 6-7. Adult ♂ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
8. Adult ♀ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 9-13. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 14-16. Adult ♀ P. Lawrence, Kansas. J. Rowley.
17. Adult ♂ Coll. Jackson Park, Chicago, Illinois. L. Kenkel.
18. Adult ♀ Coll. Jackson Park, Chicago, Illinois. L. Kenkel.
- 19-23. Adult — Coll. Jackson Park, Chicago, Illinois. L. Kenkel.
- 24-25. Adult ♂ Coll. Minnewaukon, North Dakota. W. E. Snyder.
26. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.

- 27-29. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
- 30. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 31. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 32. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
- 33. Adult ♂ P. Dickinson, North Dakota. G. K. Cherrie.
- 34-36. Adult ♀ P. Dickinson, North Dakota. G. K. Cherrie.
- 37. Adult ♂ Pres. Fox Lake, Illinois. C. E. Akeley.
- 38. Juv. ♂ Pres. Fox Lake, Illinois. C. E. Akeley.
- 39. Adult ♂ Pres. Beaver Dam, Wisconsin. W. E. Snyder.

a. Peromyscus michiganensis pallescens Allen.

Peromyscus michiganensis pallescens Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 238. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 140. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 160. Zoöl. Ser.

PALE MICHIGAN MOUSE.

- 1-2. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

393. *Peromyscus melanotis* Allen & Chapman.

Peromyscus melanotis Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 203. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 178. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 161. Zoöl. Ser.

BLACK-EARED FIELD MOUSE.

- 1-13. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
- 14-22. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

394. *Peromyscus affinis* (Allen).

Hesperomys affinis Allen, Proc. U. S. Nat. Mus., 1891, p. 195.
Peromyscus affinis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 180. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 161. Zoöl. Ser.

ALLIED FIELD MOUSE.

- 1. Adult ♂ Coll. State of Vera Cruz, Mexico. N. G. Buxton.
- 2. Adult ♀ Coll. State of Vera Cruz, Mexico. N. G. Buxton.
- 3-9. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 10-13. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

395. *Peromyscus aztecus* (Saussure).

Hesperomys aztecus Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 105.

Peromyscus aztecus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 184. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 162. Zoöl. Ser.

AZTEC MOUSE.

1. Adult ♂ P. Mascota, State of Jalisco, Mexico. E. Gerrard & Sons. A. C. Buller.

396. *Peromyscus levipes* Merriam.

Peromyscus levipes Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 123. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 195. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 164. Zoöl. Ser.

MOUNT MALINCHE MOUSE.

- 1-4. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 5-8. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

397. *Peromyscus pavidus* Elliot.

Peromyscus pavidus Elliot, Pub. Field Columb. Mus., III, 1903, p. 142. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 197. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 164. Zoöl. Ser.

SHY FIELD MOUSE.

1. Adult ♀ Type. Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.
- 2-3. Adult ♂ Paratypes. Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

398. *Peromyscus nudipes* (Allen).

Hesperomys nudipes Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 213.

Peromyscus nudipes Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 198. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 165. Zoöl. Ser.

LA CARPINTERA FIELD MOUSE.

- 1-10. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

- 11-19. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
 20-25. Juv. ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
 26-28. Juv. ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

399. *Peromyscus mexicanus* (Saussure).

Hesperomys mexicanus Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860,
 p. 103, pl. IX, figs. 1, 1a.

Peromyscus mexicanus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 207. Zoöl. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,
 VI, 1905, p. 168. Zoöl. Ser.

MEXICAN MOUSE.

- 1-10. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
 11-18. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
 19. Adult ♀ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
 20-22. Adult ♂ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.
 23-27. Adult ♀ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.
 28-36. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
 37-39. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
 40-45. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
 46. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
 47. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

400. *Peromyscus furvus* Allen & Chapman.

Peromyscus furvus Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 201. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 208, fig. 33. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 169. Zoöl. Ser.

JALAPA FIELD MOUSE.

1. Adult ♀ Paratype. Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Genus 125. **Megadontomys.**

Megadontomys Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 115.
Type *Peromyscus thomasi* Merriam.

401. **Megadontomys flavidus** Bangs.

Megadontomys flavidus Bangs, Bull. Mus. Comp. Zool., xxxix, 1902, p. 27. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 214. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 172. Zool. Ser.

BOQUETE FIELD MOUSE.

- 1-3. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
4. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

Genus 126. **Rhipidomys.**

Rhipidomys Tschudi, Archiv f. Naturgesch., I, 1844, p. 252. Type
Hesperomys leucodactylus Tschudi.

402. **Rhipidomys venezuelæ** Thomas.

Rhipidomys venezuelæ Thos., Ann. Mag. Nat. Hist., xviii, 1896, p. 303.

VENEZUELA FAN RAT.

1. Adult — P. Venezuela. Deyrolle Fils.

Genus 127. **Nectomys.**

Nectomys Peters, Abhand. K. Akad. Wiss. Berlin, 1861, p. 151,
Taf. I, II, figs. 3-4. Type —?

403. **Nectomys palmipes** Allen & Chapman.

Nectomys palmipes Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 209.

BROAD-FOOTED MOUSE.

1. Adult ♂ Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
2. Adult ♀ Paratype. Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
3. Juv. ♂ Paratype. Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

4. Adult ♀ P. Savannah Grande, Trinidad. E. Gerrard & Sons.
P. Rendall.

404. *Nectomys squamipes* (Lichtenstein).

Mus squamipes Licht., Brants's Muiz., 1827, p. 138. *Id.* Peters,
Abh. Akad. Berl., 1860, p. 148, pl. II, fig. 1.

Mus brasiliensis Pictet, Mamm. Nouv. Mus. Genève, 1841, pl.
12-14. (nec E. Geoff.)

SWIMMING RAT.

1. Adult — P. South America! Ward's Nat. Scien. Establ.,
Rochester, N. Y.

Genus 128. **Sigmodon. Cotton Rats.**

Sigmodon Say & Ord, Jour. Acad. Nat. Scien. Phil., IV, 1825, p.
352, pl. XXII, figs. 5-8. Type *Sigmodon hispidus* Say &
Ord.

405. *Sigmodon hispidus* Say & Ord.

Sigmodon hispidus Say & Ord, Jour. Acad. Nat. Scien. Phil., 1825,
p. 354. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,
p. 144, fig. 31. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 174. Zoöl. Ser.
Arvicola ferrugineus Harl., Am. Jour. Scien., 1828, p. 285.

Arvicola hortensis Harl., Med. & Phys. Res., 1835, p. 49, pl. fig. 58.

HISPID COTTON RAT.

- 1-10. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
11-15. Juv. ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
16-26. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
27-31. Juv. ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
32-35. Adult ♂ Coll. Riceboro, Georgia. T. Surber.
36. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
37. Adult ♂ Coll. St. Marys, Georgia. T. Surber.
38. Adult ♀ Coll. St. Marys, Georgia. T. Surber.
39-44. Adult ♂ Coll. Gainesville, Florida. T. Surber.
45. Adult ♀ Coll. Gainesville, Florida. T. Surber.
46. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist.
N. Y. F. M. Chapman.

a. Sigmodon hispidus littoralis Chapman.

Sigmodon hispidus littoralis Chapman, Bull. Am. Mus. Nat. Hist.
N. Y., 1889, p. 118. Elliot, Syn. N. Am. Mamm., F. C. M.
Pub., II, 1901, p. 144. Zoöl. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 175.
Zoöl. Ser.

COAST COTTON RAT.

- 1-4. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 5-6. Adult ♀ Coll. Enterprise, Florida. T. Surber.
7. Juv. ♀ Coll. Enterprise, Florida. T. Surber.
- 8-10. Adult ♀ Exch. E. Penn., opposite Micco, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
- 11-12. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
- 13-14. Adult ♂ Coll. Citronella, Florida. T. Surber.
15. Adult ♀ Coll. Citronella, Florida. T. Surber.
16. Adult ♂ Exch. Flamingo, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
17. Adult ♂ Coll. New Berlin, Florida. T. Surber.
18. Adult ♀ Coll. New Berlin, Florida. T. Surber.
19. Adult — Exch. Jupiter, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 20-21. Adult ♂ Coll. E. Penn., opp. Micco, Florida. T. Surber.
- 22-23. Adult ♂ Topotypes. Coll. Micco, Brevard Co., Florida. T. Surber.
24. Adult ♀ Topotype. Coll. Micco, Brevard Co., Florida. T. Surber.
- 25-28. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 29-32. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.

b. *Sigmodon hispidus texensis* (Audubon & Bachman).

Arvicola texiana! Aud. & Bach., Quad. N. Am., III, 1853, p. 229.

Sigmodon hispidus texensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. & W. Indies, F. C. M. Pub., VI, 1905, p. 175. Zoöl. Ser.

TEXAN COTTON RAT.

1. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
- 2-3. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
4. Adult ♂ Exch. Corpus Christi, Texas. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
5. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
6. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

7. Adult ♀ Exch. Cameron Co., Texas. Am. Mus. Nat. Hist. N. Y. C. K. Worthern.
8. Juv. ♂ Coll. Noble, Oklahoma Territory. T. Surber.
- 9-13. Juv. ♀ Coll. Noble, Oklahoma Territory. T. Surber.
- 14-17. Adult ♂ Coll. Dougherty, Oklahoma Territory. T. Surber.
- 18-20. Juv. ♀ Coll. Dougherty, Oklahoma Territory. T. Surber.

c. *Sigmodon hispidus arizonæ* Mearns.

Sigmodon hispidus arizonæ Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 287. Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., II, 1901, p. 144. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 228. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 176. Zoöl. Ser.

ARIZONA COTTON RAT.

- 1-4. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 5-7. Adult ♀ P. Fairbank, Arizona. W. W. Price.

d. *Sigmodon hispidus mascotensis* (Allen).

Sigmodon mascotensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 54.
Sigmodon colimæ Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 55.
Sigmodon hispidus mascotensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 227. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 176. Zoöl. Ser.

MASCOTA COTTON RAT.

1. Adult — Coll. Ocotlan, State of Michoacan, Mexico. F. E. Lutz.
2. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
3. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
4. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

e. *Sigmodon hispidus inexoratus* Elliot.

Sigmodon hispidus inexoratus Elliot, Pub. Field Columb. Mus., III, 1903, p. 144. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 229, fig. xxxviii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 177. Zoöl. Ser.

OCOTLAN COTTON RAT.

- 1-11. Adult ♂ Type and paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
 12-16. Adult ♀ Paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

f. *Sigmodon hispidus toltecus* (Saussure).

- Hesperomys toltecus* Sauss., Rev. Mag. Zool., 2me Sér., 1860, p. 98.
Sigmodon hispidus toltecus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 226. Zoöl. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 177. Zoöl. Ser.

TOLTEC COTTON RAT.

- 1-5. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
 6-8. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
 9-12. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
 13-15. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
 16. Juv. ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
 17. Juv. ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
 18-20. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
 21-22. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
 23-28. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
 29-31. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

g. *Sigmodon hispidus borucæ* (Allen).

- Sigmodon borucæ* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 40.
Sigmodon hispidus borucæ Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 224, fig. 38. Zoöl. Ser.
Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 178. Zoöl. Ser.

BORUCA COTTON RAT.

- 1-2. Adult ♀ Paratypes. Exch. Boruca, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.

3. Adult ♀ Exch. San José, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.

h. Sigmodon hispidus chiriquensis (Allen).

Sigmodon borucae chiriquensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 68.

Sigmodon hispidus chiriquensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 225. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 178. Zoöl. Ser.

BOQUERON COTTON RAT.

1. Juv. — P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

406. *Sigmodon minimus* Mearns.

Sigmodon minimus Mearns, Proc. U. S. Nat. Mus., XVII, 1894, p. 130. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 146. Zoöl. Ser. Id. Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 230. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 178. Zoöl. Ser.

LEAST COTTON RAT.

1. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.

407. *Sigmodon leucotis* Bailey.

Sigmodon leucotis Bailey, Proc. Biol. Soc. Wash., XV, 1902, p. 115. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 230. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 179. Zoöl. Ser.

WHITE-EARED COTTON RAT.

- 1-7. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

408. *Sigmodon sanctæmartæ* Bangs.

Sigmodon sanctæmartæ Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 189.

SANTA MARTA COTTON RAT.

- 1-2. Adult ♂ P. Minca, Colombia. H. H. Smith.
3-5. Adult ♂ P. Mamatoca, Colombia. H. H. Smith.
6. Adult ♀ P. Mamatoca, Colombia. H. H. Smith.
7. Adult — P. Aqua Dulce, Colombia. H. H. Smith.
8-10. Adult ♂ P. Masinga, Colombia. H. H. Smith.

Genus 129. **Oryzomys. Rice Rats.**

Oryzomys Baird, N. Am. Mamm., 1857, p. 458. Type *Mus palustris* Harlan.

Oligoryzomys Bangs, Proc. N. Eng. Zool. Club, 1, 1900, p. 94, pl. 1, fig. 2.

Subgenus A. **Oryzomys.****409. Oryzomys palustris** (Harlan).

Mus palustris Harl., Am. Jour. Scien. & Arts, xxxi, 1837, p. 385.

Hesperomys palustris Wagn., Schreb. Säugth., Suppl., III, 1843, p. 543.

Arvicola oryzivora Aud. & Bach., Quad. N. Am., III, 1853, p. 214, pl. CXLIV, fig. 3.

Oryzomys palustris texensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 177. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 147. Zool. Ser.

Oryzomys palustris Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 147. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 180. Zool. Ser.

SWAMP RICE RAT.

1. Adult ♂ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. Brimley.
- 2-3. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
- 4-8. Adult ♂ Coll. Riceboro, Georgia. T. Surber.
9. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
10. Adult ♂ Coll. St. Marys, Georgia. T. Surber.
11. Adult ♀ Coll. St. Marys, Georgia. T. Surber.
- 12-15. Adult ♂ Coll. New Berlin, Florida. T. Surber.
- 16-19. Adult ♀ Coll. New Berlin, Florida. T. Surber.
20. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
21. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
22. Adult ♂ Pres. Okefenoke Swamp, Charlton Co., Georgia. B. T. Gault.

410. Oryzomys natator (Chapman).

Oryzomys palustris natator Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 44. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 147. Zool. Ser.

Oryzomys natator Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 181. Zool. Ser.

SWIMMING RICE RAT.

- 1-2. Adult ♂ Paratypes. Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
- 3-4. Adult ♀ Topotypes. Coll. Gainesville, Florida. T. Surber.
- 5-11. Adult ♂ Coll. Enterprise, Florida. T. Surber.
12. Juv. ♂ Coll. Enterprise, Florida. T. Surber.
- 13-15. Adult ♀ Coll. Enterprise, Florida. T. Surber.
- 16-18. Adult ♂ Coll. Micco, Florida. T. Surber.
19. Adult ♂ Exch. Flamingo, Florida. Am. Mus. Nat. Hist. N. Y. L. W. Brownell.
- 20-21. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
22. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.

411. *Oryzomys aquaticus* Allen.

Oryzomys aquaticus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 289. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 147, fig. 32. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 181. Zoöl. Ser.

AQUATIC RICE RAT.

1. Adult ♂ Paratype. Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. Armstrong.
2. Juv. ♀ Paratype. Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. Armstrong.

412. *Oryzomys albiventer* Merriam.

Oryzomys albiventer Merr., Proc. Wash. Acad. Scien., III, 1901, p. 279. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 236. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 182. Zoöl. Ser.

WHITE-BELLIED RICE RAT.

1. Adult ♂ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
- 2-3. Adult ♀ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
4. Adult ♂ Coll. Balsas, State of Guerrero, Mexico. F. E. Lutz.

413. *Oryzomys molestus* Elliot.

Oryzomys molestus Elliot, Pub. Field Columb. Mus., III, 1903, p.

145. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 240, fig. xxxix. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 183. Zoöl. Ser.

OCOTLAN RICE RAT.

1. Adult ♂ Type. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

414. *Oryzomys jalapæ* Allen & Chapman.

- Oryzomys jalapæ* Allen & Chapm., Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 206. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 246. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 184. Zoöl. Ser.

JALAPA RICE RAT.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
2. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
3. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

a. *Oryzomys jalapæ apatelius* Elliot.

- Oryzomys jalapæ apatelius* Elliot, Pub. Field Columb. Mus., III, 1904, p. 266. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 246. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 184. Zoöl. Ser.

DECEITFUL RICE RAT.

- 1-2. Adult ♂ Paratypes. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
3. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 4-6. Adult ♀ Type and paratypes. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

415. *Oryzomys chapmani* Thomas.

- Oryzomys chapmani* Thos., Ann. Mag. Nat. Hist., 7th Ser., 1, 1898, p. 179. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 238. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 186. Zoöl. Ser.

CHAPMAN'S RICE RAT.

- 1-5. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

- 6-11. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

416. *Oryzomys melanotis* Thomas.

Oryzomys melanotis Thomas, Ann. Mag. Nat. Hist., 6th Ser., xi, 1893, p. 404. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 243. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 187. Zool. Ser.

BLACK-EARED RICE RAT.

1. Adult ♂ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

417. *Oryzomys rostratus* Merriam.

Oryzomys rostratus Merr., Proc. Wash. Acad. Scien., iii, 1901, p. 293. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 243. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 188. Zool. Ser.

BROAD-NOSE RICE RAT.

- 1-5. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
6. Juv. ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
7. Juv. ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

418. *Oryzomys velutinus* Allen & Chapman.

Oryzomys velutinus Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 214.

TRINIDAD RICE RAT.

1. Adult ♂ Paratype. Exch. Princetown, Island of Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

419. *Oryzomys meridensis* Thomas.

Oryzomys meridensis Thos., Ann. Mag. Nat. Hist., 6th Ser., xiv, 1894, p. 351.

MERIDA RICE RAT.

1. Adult — P. Venezuela. Deyrolle Fils.

420. *Oryzomys maculiventer* Allen.

Oryzomys maculiventer Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 204.

SPOTTED-BELLY RICE RAT.

- 1-2. Adult ♂ Paratypes. P. El Libraro, Colombia, S. A. H. H. Smith.

- 3-4. Adult ♂ P. Valparaiso, Colombia, S. A. H. H. Smith.
 5. Adult ♀ Paratype. P. El Librero, Colombia, S. A. H. H. Smith.
 6-8. Adult — Paratypes. P. El Librero, Colombia, S. A. H. H. Smith.
 9. Adult — P. Valparaiso, Colombia, S. A. H. H. Smith.

421. *Oryzomys fulvescens* (Saussure).

Hesperomys fulvescens Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 102.

Oryzomys fulvescens Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 248. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 189. Zoöl. Ser.

FULVOUS RICE RAT.

1. Adult ♂ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
 2-5. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
 6. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
 7-8. Adult ♂ Coll. Rio Blanco, State of Vera Cruz, Mexico. N. G. Buxton.
 9-10. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
 11-12. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

422. *Oryzomys stolzmanni* Thomas.

Oryzomys longicaudatus Thos., Proc. Zoöl. Soc., 1882, p. 104. (nec Bennett.)

Oryzomys stolzmanni Thos., Ann. Mag. Nat. Hist., 6th Ser., XIV, 1894, p. 357.

STOLZMANN'S RICE RAT.

1. Adult — P. Venezuela. Deyrolle Fils.

Subgenus B. *Oligoryzomys*.

423. *Oryzomys costaricensis* Allen.

Oryzomys costaricensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 239. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 249, fig. 39. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 189. Zoöl. Ser.

Oryzomys vegetus Bangs, Bull. Mus. Comp. Zool., 1902, p. 35.
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV,
 Pt. 1, 1904, p. 249, fig. 40. Zool. Ser.

EL GENERAL RICE RAT.

1. Adult ♂ Exch. Boruca, Costa Rica. Am. Mus. Nat. Hist.
 N. Y. G. K. Cherrie.
- 2-3. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
- 4-6. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

424. *Oryzomys minutus* (Tomes).

Hesperomys minutus Tomes, Proc. Zool. Soc., 1860, p. 215.

LEAST RICE RAT.

1. Adult — P. Venezuela. Deyrolle Fils.

Genus 130. **Zygodontomys.**

Zygodontomys Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p.
 38, pl. 1, figs. 1-7. Type *Oryzomys cherriei* Allen.

425. *Zygodontomys cherrii* (Allen).

Oryzomys cherriei Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895,
 p. 329.

Zygodontomys cherrii Elliot, Mamm. Middle Amer. & W. Indies,
 F. C. M. Pub., IV, Pt. 1, 1904, p. 253, figs. 42, XL. Zool. Ser.
Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., VI, 1905, p. 190. Zool. Ser.

CHERRIE'S RICE RAT.

- 1-2. Adult ♂ Paratypes. Exch. Boruca, Costa Rica. Am. Mus.
 Nat. Hist. N. Y. G. K. Cherrie.
3. Adult ♀ Paratype. Exch. Boruca, Costa Rica. Am. Mus.
 Nat. Hist. N. Y. G. K. Cherrie.
4. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

426. *Zygodontomys chrysomelas* (Allen).

Hesperomys (Habrothrix) caliginosus Allen, Bull. Am. Mus. Nat.
 Hist. N. Y., 1891, p. 210. (nec Tomes.)

Oryzomys chrysomelas Allen, Bull. Am. Mus. Nat. Hist. N. Y.,
 1897, p. 37.

Zygodontomys chrysomelas Elliot, Mamm. Middle Amer. & W.
 Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 253. Zool. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,
 VI, 1905, p. 190. Zool. Ser.

SUERRE RICE RAT.

1. Adult ♂ Paratype. Exch. Suerre, Costa Rica. Am. Mus. Nat. Hist. N. Y. A. Alfaro.

427. *Zygodontomys brevicaudus* (Allen & Chapman).

Oryzomys brevicauda Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 215.

Zygodontomys brevicauda Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 38.

SHORT-TAILED RICE RAT.

- 1-3. Adult ♂ Paratypes. Exch. Princetown, Island of Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
4. Adult ♀ Exch. Caura, Island of Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Genus 131. *Rhithrodontomys*. Harvest Mice.

Reithrodontomys (sic) Giglioli, Ricer. intern. Distrib. Geogr. Gen. Roma, 1873, p. 160. Type *Mus leontii* Audubon & Bachman.

428. *Rhithrodontomys leontii* (Audubon & Bachman).

Mus leontii Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 307.

Reithrodontomys leontei Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 148, fig. 33. Zool. Ser.

Rhithrodontomys leontii Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 191. Zool. Ser.

LE CONTE'S HARVEST MOUSE.

1. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
2. Juv. ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
3. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
4. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. Brimley.

5-6. Adult ♂ Coll. Gainesville, Florida. T. Surber.

7-10. Adult ♀ Coll. Gainesville, Florida. T. Surber.

11. Juv. ♀ Coll. Gainesville, Florida. T. Surber.

a. *Rhithrodontomys leontii impiger* Bangs.

Reithrodontomys leontii impiger Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 167. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 149. Zool. Ser.

Rhithrodontomys leontii impiger Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 191. Zoöl. Ser.

DILIGENT HARVEST MOUSE.

1. Adult ♂ Topotype. Pres. White Sulphur Springs, West Virginia. T. Surber.

b. *Rhithrodontomys leontii dickinsoni* (Rhoads).

Reithrodontomys! humilis dickinsoni Rhoads, Amer. Nat., xxix, 1895, p. 590.

Reithrodontomys! lecontei dickinsoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 150. Zoöl. Ser.

Rhithrodontomys leontii dickinsoni Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 192. Zoöl. Ser.

DICKINSON'S HARVEST MOUSE.

1. Adult ♂ Coll. Enterprise, Florida. T. Surber.

429. *Rhithrodontomys dychii* Allen.

Ochetodon humilis Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 185. (nec Aud. & Bachm.)

Reithrodontomys! dychei Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 120. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 150. Zoöl. Ser.

Rhithrodontomys dychii Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 192. Zoöl. Ser.

DYCHE'S HARVEST MOUSE.

1-4. Adult ♂ Topotypes. P. Lawrence, Kansas. J. Rowley.

5. Adult ♀ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

6. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

7. Adult ♂ P. Boulder, Colorado. R. T. Young.

8. Adult ♀ P. Boulder, Colorado. R. T. Young.

9. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

10. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

11-26. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.

27-39. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

a. *Rhithrodontomys dychii nebrascensis* Allen.

Reithrodontomys! dychei nebrascensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 122. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 150. Zoöl. Ser.

Rhithrodontomys dychii nebrascensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 192. Zoöl. Ser.

NEBRASKA HARVEST MOUSE.

1. Adult ♂ P. Boulder, Colorado. R. T. Young.

430. *Rhithrodontomys megalotis* (Baird).

Reithrodon! *megalotis* Baird, N. Am. Mamm., 1857, p. 451.

Reithrodontomys! *aztecus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 79.

Reithrodontomys! *megalotis deserti* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 127.

Reithrodontomys! *megalotis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 151. Zoöl. Ser.

Rhithrodontomys megalotis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 259, figs. 43, XLI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 193. Zoöl. Ser.



FIG. XXXII. RHITHRODONTOMYS MEGALOTIS.
BIG-EARED HARVEST MOUSE.

BIG-EARED HARVEST MOUSE.

1-10. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

11-12. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.

13. Adult ♀ Coll. Mount Pinos, California. E. Heller.

- 14. Adult ♂ Coll. Piru Creek, California. E. Heller.
- 15-16. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 17. Adult ♀ Coll. Fort Tejon, California. E. Heller.
- 18. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 19. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 20. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

431. *Rhithrodontomys longicaudus* (Baird).

Reithrodon! longicauda Baird, N. Am. Mamm., 1857, p. 451.

Reithrodontomys! longicaudus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 151. Zoöl. Ser.

Rhithrodontomys longicaudus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 261. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zoöl. Ser.

LONG-TAILED HARVEST MOUSE.

- 1-19. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 20-37. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 38-47. Adult ♂ P. Los Angeles, California. J. Rowley.
- 48-50. Adult ♀ P. Los Angeles, California. J. Rowley.
- 51. Adult ♂ P. Stanford University, California. W. W. Price.
- 52-55. Adult ♂ Pres. Palo Alto, California. E. Heller.
- 56. Adult ♂ Coll. Nicasio, California. E. Heller.
- 57-62. Adult ♂ Topotypes. Coll. Petaluma, California. E. Heller.
- 63-64. Adult ♀ Topotypes. Coll. Petaluma, California. E. Heller.
- 65. Adult ♂ Coll. Mendocino, California. E. Heller.
- 66. Adult ♂ Coll. Eureka, California. E. Heller.
- 67. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 68. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.

a. Rhithrodontomys longicaudus pallidus (Rhoads).

Reithrodontomys! pallidus Rhoads, Amer. Nat., 1893, p. 835.

Reithrodontomys! longicaudus pallidus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 152. Zoöl. Ser.

Rhithrodontomys longicaudus pallidus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 262. Zoöl. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zoöl. Ser.

PALLID HARVEST MOUSE.

- 1-3. Adult ♂ Coll. Oro Grande, Mohave Desert, California. E. Heller.
- 4-9. Adult ♀ Coll. Oro Grande, Mohave Desert, California. E. Heller.
- 10. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
- 11. Adult ♂ Coll. Las Eucinas, Lower California, Mexico. E. Heller.

432. *Rhithrodontomys chrysotis* Elliot.

Reithrodontomys! chrysotis Elliot, Pub. Field Columb. Mus., I, 1899, p. 281. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 152. Zoöl. Ser.

Rhithrodontomys chrysotis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zoöl. Ser.

GOLDEN-EARED HARVEST MOUSE.

- 1-3. Adult ♂ Type and paratypes. Coll. Dougherty, Indian Territory. T. Surber.
- 4. Adult ♀ Paratype. Coll. Dougherty, Indian Territory. T. Surber.

433. *Rhithrodontomys catalinae* Elliot.

Rhithrodontomys catalinae Elliot, Pub. Field Columb. Mus., III, 1903, p. 246. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zoöl. Ser.

SANTA CATALINA ISLAND HARVEST MOUSE.

- 1. Adult ♂ Type. P. Santa Catalina Island, California. J. Rowley.

434. *Rhithrodontomys klamathensis* Merriam.

Reithrodontomys! klamathensis Merr., N. Am. Faun., No. 16, 1899, p. 93. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 152. Zoöl. Ser.

Rhithrodontomys klamathensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 196. Zoöl. Ser.

KLAMATH HARVEST MOUSE.

- 1. Adult ♀ Coll. Grant's Pass, Oregon. E. Heller.

435. *Rhithrodontomys arizonensis* Allen.

Reithrodontomys! longicaudus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 320. Ex Arizona. (nec Baird.)

Reithrodontomys! arizonensis Allen, Bull. Am. Mus. Nat. Hist.

N. Y., 1895, p. 134. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 153. Zoöl. Ser.

Rhithrodontomys arizonensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 196. Zoöl. Ser.

ARIZONA HARVEST MOUSE.

1-2. Adult ♂ P. Chiricahua Mountains, Arizona. B. C. Condit.

3. Adult ♀ P. Chiricahua Mountains, Arizona. B. C. Condit.

436. *Rhithrodontomys saturatus* Allen & Chapman.

Reithrodontomys! saturatus Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 201.

Rhithrodontomys saturatus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 262. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 196. Zoöl. Ser.

LAS VIGAS HARVEST MOUSE.

1-4. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

5-6. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

7. Adult ♂ Coll. Mount Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

437. *Rhithrodontomys peninsulæ* Elliot.

Rhithrodontomys peninsulæ Elliot, Pub. Field Columb. Mus., III, 1903, p. 164. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 263. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 197. Zoöl. Ser.

PENINSULAR HARVEST MOUSE.

1-9. Adult ♂ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

10-15. Adult ♀ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

438. *Rhithrodontomys difficilis* Merriam.

Reithrodontomys! difficilis Merr., Proc. Wash. Acad. Scien., III, 1901, p. 556.

Rhithrodontomys difficilis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 263. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 197. Zoöl. Ser.

CAPTIOUS HARVEST MOUSE.

1-2. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

a. Rhithrodontomys mexicanus fulvescens Allen.

Reithrodontomys! mexicanus fulvescens Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 319.

Rhithrodontomys mexicanus fulvescens Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 264. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 198. Zoöl. Ser.

OPOSURA HARVEST MOUSE.

1-2. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

3. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

4. Adult ♀ Topotype. P. Oposura, State of Sonora, Mexico. B. C. Condit.

439. *Rhithrodontomys laceyi* Allen.

Reithrodontomys! laceyi Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 235. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 153. Zoöl. Ser.

Rhithrodontomys laceyi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 199. Zoöl. Ser.

LACEY'S HARVEST MOUSE.

1. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

440. *Rhithrodontomys costaricensis* Allen.

Reithrodontomys! costaricensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 139.

Rhithrodontomys costaricensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 267. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 200. Zoöl. Ser.

COSTA RICA HARVEST MOUSE.

1. Adult ♀ Exch. San José, Costa Rica. Am. Mus. Nat. Hist. N. Y. A. Alfaro.

2-4. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

5-6. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

441. *Rhithrodontomys rufescens* Allen & Chapman.

Reithrodontomys! rufescens Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 199.

Rhithrodontomys rufescens Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 268. Zoöl. Ser. Id.

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 201. Zoöl. Ser.

RUFOUS HARVEST MOUSE.

1. Adult ♂ Paratype. Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

a. Rhithrodontomys griseiflavus helvolus Merriam.

Reithrodontomys! griseoflavus helvolus Merr., Proc. Wash. Acad. Scien., III, 1901, p. 554.

Rhithrodontomys griseiflavus helvolus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 270. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 202. Zoöl. Ser.

OAXACA HARVEST MOUSE.

1. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

442. *Rhithrodontomys amœnus* Elliot.

Rhithrodontomys amœnus Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 234.

ATTRACTIVE HARVEST MOUSE.

1. Adult ♀ Type. Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

443. *Rhithrodontomys inexpectatus* Elliot.

Rhithrodontomys inexpectatus Elliot, Pub. Field Columb. Mus., III, 1903, p. 145. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 271. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 203. Zoöl. Ser.

PATZCUARO HARVEST MOUSE.

1. Adult ♂ Type. Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

Genus 132. *Ichthyomys*.

Ichthyomys Thomas, Proc. Zoöl. Soc., 1893, p. 337. Type *Ichthyomys stolzmanni* Thomas.

444. *Ichthyomys hydrobates* (Winge).

Habrothrix hydrobates Winge, Vid. Med. Kjobenh., 1891, p. 1, pl. 1.

WINGE'S FISH-EATING RAT.

1. Juv. — P. Venezuela. Deyrolle Fils.

Genus 133. **Acodon.**

Akodon! Meyen, Nova Acta Phys. Med. Acad. Cæs. Leop.-Carol., XVI, 1833, p. 599, tab. XLIII, fig. 1. Type *Akodon! boliviense* Meyen.

Abrothrix (sic) Waterh., Proc. Zool. Soc., 1837, p. 21.

445. Acodon teguina (Alston).

Hesperomys teguina Alston, Proc. Zool. Soc., 1876, p. 755.

Acodon teguina Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. 1, 1904, p. 273, figs. 44, XLII. Zool. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.

Pub., VI, 1905, p. 204. Zool. Ser.

ALSTON'S MOUSE.

1. Adult — P. Costa Rica. E. Gerrard & Sons.

446. Acodon urichi Allen & Chapman.

Abrothrix! caliginosus Allen & Chapman, Bull. Am. Mus. Nat.

Hist. N. Y., 1893, p. 217. (nec Tomes.)

Akodon! urichi Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y.,

1897, p. 19.

URICH'S MOUSE.

1. Adult ♀ Exch. Princetown, Island of Trinidad. Am. Mus.

Nat. Hist. N. Y. F. M. Chapman.

Genus 134. **Oxymycterus.**

Oxymycterus Waterh., Proc. Zool. Soc., 1837, p. 21. Type *Mus nasutus* Waterhouse.

447. Oxymycterus nasutus (Waterhouse).

Mus nasutus Waterh., Proc. Zool. Soc., 1837, p. 16.

LONG-NOSED RAT.

1. Adult — P. Argentine Republic. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily V. **Neotominæ. Wood Rats.**Genus 135. **Neotoma.**

Neotoma Say & Ord, Jour. Acad. Nat. Scien. Phil., IV, 1825, p. 345.

Type *Mus floridana* Ord.

448. *Neotoma fuscipes* Baird.

Neotoma fuscipes Baird, N. Am. Mamm, 1857, p. 495. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 158. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 278. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

Neotoma monochroura! Rhoads, Amer. Nat., XXVIII, 1894, p. 67.

Neotoma splendens True, Proc. U. S. Nat. Mus., 1894, p. 353.

DUSKY-FOOTED WOOD RAT.

- 1-26. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 27-51. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 52. Juv. ♂ P. Portola, San Mateo County, California. W. W. Price.
- 53-54. Juv. ♀ P. Portola, San Mateo County, California. W. W. Price.
- 55-60. Adult ♂ Coll. Nicasio, California. E. Heller.
- 61-63. Adult ♀ Coll. Nicasio, California. E. Heller.
- 64. Adult ♂ Coll. Mendocino, California. E. Heller.
- 65. Adult ♀ Coll. Mendocino, California. E. Heller.
- 66-68. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 69. Adult ♀ Coll. Point Reyes, California. E. Heller.
- 70-73. Adult ♂ Topotypes. Coll. Petaluma, California. E. Heller.
- 74-77. Adult ♀ Topotypes. Coll. Petaluma, California. E. Heller.
- 78-80. Adult ♂ Pres. Palo Alto, California. E. Heller.
- 81. Juv. ♂ Pres. Palo Alto, California. E. Heller.
- 82-85. Adult ♀ Pres. Palo Alto, California. E. Heller.
- 86. Adult ♂ P. Stanford University, Palo Alto, California. W. W. Price.
- 87. Adult ♂ P. Cedro Place, California. G. A. Coleman.
- 88. Juv. ♂ P. Stevens Creek, California. G. A. Coleman.
- 89. Adult ♂ Coll. Requa, California. E. Heller.
- 90-92. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 93-98. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 99-100. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.

a. *Neotoma fuscipes macrotis* (Thomas).

Neotoma macrotis Thomas, Ann. Mag. Nat. Hist., 6th Ser., XII, 1893, p. 234.

Neotoma macrotis simplex True, Proc. U. S. Nat. Mus., 1894, p. 354.

Neotoma fuscipes macrotis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 159. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 279. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

LARGE-EARED WOOD RAT.

1-14. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.

15-30. Adult ♀ P. Carmel River, Monterey County, California. W. W. Price.

31-35. Juv. ♂ P. Carmel River, Monterey County, California. W. W. Price.

36-39. Juv. ♀ P. Carmel River, Monterey County, California. W. W. Price.

40-41. Adult ♂ P. San Antonio, San Bernardino County, California. W. W. Price.

42. Adult ♀ P. San Antonio, San Bernardino County, California. W. W. Price.

43. Juv. ♀ P. San Antonio, San Bernardino County, California. W. W. Price.

44. Adult ♀ Coll. Whitewater, San Bernardino County, California. E. Heller.

45-46. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.

47. Adult ♀ Coll. Aguaje de las Fresas, Lower California, Mexico. E. Heller.

48. Adult ♀ Coll. San Antonio, Lower California, Mexico. E. Heller.

49. Adult ♂ Coll. La Grulla, Lower California, Mexico. E. Heller.

50. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.

51-52. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.

53-55. Adult ♂ Coll. Rosarito Divide, Lower California, Mexico. E. Heller.

56-57. Adult ♀ Coll. Palomar, Lower California, Mexico. E. Heller.

b. *Neotoma fuscipes streatori* Merriam.

Neotoma fuscipes streatori Merr., Proc. Biol. Soc. Wash., IX, 1894,

- p. 124. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,
 p. 159. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &
 W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

STREATOR'S WOOD RAT.

- 1-3. Adult ♂ P. Snow Mountains, Colusa County, California.
 W. W. Price.
 4-6. Adult ♀ P. Snow Mountains, Colusa County, California.
 W. W. Price.
 7-10. Juv. ♂ P. Snow Mountains, Colusa County, California.
 W. W. Price.
 11-13. Juv. ♀ P. Snow Mountains, Colusa County, California.
 W. W. Price.

c. *Neotoma fuscipes dispar* Merriam.

- Neotoma fuscipes dispar* Merr., Proc. Biol. Soc. Wash., IX, 1894,
 p. 124. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,
 p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &
 W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

DISSIMILAR WOOD RAT.

- 1-3. Adult ♂ Coll. Lone Pine, Inyo County, California. E.
 Heller.
 4-11. Adult ♀ Coll. Lone Pine, Inyo County, California. E.
 Heller.
 12. Adult ♀ Coll. Hot Spring, Mt. Whitney, California. E.
 Heller.

d. *Neotoma fuscipes annectens* Elliot.

- Neotoma fuscipes annectens* Elliot, Pub. Field Columb. Mus., I,
 1898, p. 201. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M.
 Pub., II, 1901, p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 206.
 Zoöl. Ser.

ALLIED WOOD RAT.

- 1-11. Adult ♂ Type and paratypes. P. Portola, San Mateo
 County, California. W. W. Price.
 12-17. Adult ♀ Paratypes. P. Portola, San Mateo County, Cali-
 fornia. W. W. Price.

e. *Neotoma fuscipes affinis* Elliot.

- Neotoma fuscipes affinis* Elliot, Pub. Field Columb. Mus., I, 1898,
 p. 202. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 207. Zoöl. Ser.

RELATED WOOD RAT.

- 1-10. Adult ♂ Type and paratypes. P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 11-24. Adult ♀ Paratypes. P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 25-28. Juv. ♀ Paratypes. P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 29. Juv. ♂ Paratype. P. Alum Rock Park, Santa Clara County, California. W. W. Price.
 30-31. Adult ♂ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.
 32-35. Adult ♀ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.

449. *Neotoma mohavensis* (Elliot).

Neotoma fuscipes mohavensis Elliot, Pub. Field Columb. Mus., III, 1903, p. 246. Zoöl. Ser.

Neotoma mohavensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 207. Zoöl. Ser.

MOHAVE DESERT WOOD RAT.

- 1-3. Adult ♂ Paratypes. Coll. Oro Grande, Mohave Desert, California. E. Heller.
 4-7. Adult ♀ Type and paratypes. Coll. Oro Grande, Mohave Desert, California. E. Heller.

450. *Neotoma cnemophila* (Elliot).

Neotoma fuscipes cnemophila Elliot, Pub. Field Columb. Mus., III, 1904, p. 267. Zoöl. Ser.

Neotoma cnemophila Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 207. Zoöl. Ser.

MOUNT PINOS WOOD RAT.

- 1-3. Adult ♂ Type and paratypes. Coll. Mount Pinos, Lockwood Valley, California. E. Heller.
 4-5. Adult ♀ Paratypes. Coll. Mount Pinos, Lockwood Valley, California. E. Heller.
 6. Adult ♀ Coll. Bailey's Ranch, Piru Creek, California. E. Heller.
 7-8. Adult ♂ Coll. Castac Lake, Piru Creek, California. E. Heller.

451. *Neotoma micropus* Baird.

Neotoma micropus Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 333. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 155. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. I, 1904, p. 281, figs. 45, XLIII. Zoöl. Ser.
Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., VI, 1905, p. 208. Zoöl. Ser.



FIG. XXXIII. NEOTOMA MICROPUS. SMALL-FOOTED WOOD RAT.

SMALL-FOOTED WOOD RAT.

1. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y.
H. P. Attwater.
2. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y.
H. P. Attwater.
3. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist.
N. Y. H. P. Attwater.
- 4-5. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist.
N. Y. H. P. Attwater.
6. Adult ♀ Exch. Corpus Christi, Texas. Am. Mus. Nat. Hist.
N. Y. F. M. Chapman.
7. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist.
N. Y. F. Armstrong.
8. Adult ♂ Coll. Xaral, State of Coahuila, Mexico. Heller
& Barber.

a. Neotoma micropus surberi Elliot.

Neotoma micropus surberi Elliot, Pub. Field Columb. Mus., I,
 1899, p. 279. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M.
 Pub., II, 1901, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 209.
 Zoöl. Ser.

SURBER'S WOOD RAT.

1. Adult ♂ Type. Coll. Cañon 3 miles west of Alva, Okla-
 homa Territory. T. Surber.

2. Adult ♀ Paratype. Coll. Cañon 3 miles west of Alva, Oklahoma Territory. T. Surber.
- 3-9. Adult ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 10-16. Adult ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 17-19. Juv. ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 20-22. Juv. ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.

452. *Neotoma baileyi* Merriam.

- Neotoma baileyi* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 123.
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 210. Zoöl. Ser.
Neotoma campestris baileyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 156. Zoöl. Ser.

BAILEY'S WOOD RAT.

- 1-2. Adult ♂ Coll. Noble, Oklahoma Territory. T. Surber.
- 3-4. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.
- 5-8. Adult ♂ Coll. Dougherty, Oklahoma Territory. T. Surber.
- 9-10. Adult ♀ Coll. Dougherty, Oklahoma Territory. T. Surber.

453. *Neotoma floridana* (Ord).

- Mus floridana* Ord, Bull. Soc. Philom. Paris, 1818, p. 181.
Arvicola floridana Harl., Faun. Amer., 1825, p. 141.
Neotoma floridana Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 157, fig. 34. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 209. Zoöl. Ser.

FLORIDA WOOD RAT.

1. Adult — Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. J. Robertson.
2. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 3-4. Adult ♂ Coll. Gainesville, Florida. T. Surber.
5. Adult ♀ Coll. Gainesville, Florida. T. Surber.
6. Juv. ♀ Coll. Enterprise, Florida. T. Surber.
7. Adult ♀ Coll. Enterprise, Florida. T. Surber.
- 8-10. Adult ♂ Coll. Riceboro, Georgia. T. Surber.
- 11-12. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
13. Juv. ♂ Coll. Riceboro, Georgia. T. Surber.

a. *Neotoma floridana attwateri* (Mearns).

- Neotoma attwateri* Mearns, Proc. U. S. Nat. Mus., 1897, p. 721.
Neotoma floridana attwateri Elliot, Syn. N. Am. Mamm., F. C. M.

Pub., II, 1901, p. 157. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 210. Zoöl. Ser.

ATTWATER'S WOOD RAT.

1. Adult ♂ Topotype. Exch. Turtle Creek, Kerr² County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

454. *Neotoma pennsylvanica* Stone.

Neotoma pennsylvanica Stone, Proc. Acad. Nat. Scien. Phil., 1893, p. 16. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 157. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 210. Zoöl. Ser.

PENNSYLVANIA WOOD RAT.

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
2. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
3. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 4-9. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 10-12. Juv. ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.

455. *Neotoma mexicana* Baird.

Neotoma mexicana Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 333. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 158. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 282. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 213. Zoöl. Ser.

MEXICAN WOOD RAT.

- 1-5. Adult ♂ P. Huachuca Mountains, Arizona. W. W. Price.
- 6-7. Adult ♀ P. Huachuca Mountains, Arizona. W. W. Price.
8. Juv. ♂ P. Huachuca Mountains, Arizona. W. W. Price.
9. Juv. ♀ P. Huachuca Mountains, Arizona. W. W. Price.
10. Adult ♂ P. Show Low, Arizona. W. W. Price.
11. Adult ♀ P. Show Low, Arizona. W. W. Price.
- 12-13. Adult ♀ P. Fairbank, Arizona. W. W. Price.
14. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
15. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 16-19. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
- 20-24. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.

25-27. Adult ♂ P. White Mountains, Arizona. W. W. Price.

28-29. Adult ♀ P. White Mountains, Arizona. W. W. Price.

a. Neotoma mexicana madrensis Goldman.

Neotoma mexicana madrensis Goldm., Proc. Biol. Soc. Wash., XVIII, 1905, p. 31. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 213. Zool. Ser.

SIERRA MADRE WOOD RAT.

1-3. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

4-6. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

456. *Neotoma grandis* (Elliot).

Neotoma desertorum grandis Elliot, Pub. Field Columb. Mus., III, 1903, p. 247. Zool. Ser.

Neotoma grandis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 215. Zool. Ser.

CAMERON LAKE WOOD RAT.

1-2. Adult ♂ Type and paratype. P. Cameron Lake, Colorado Desert, California. F. Stephens.

3. Adult ♂ P. Borego Springs, San Diego County, California. F. Stephens.

4. Adult ♂ P. Jamul Ranch, San Diego County, California. F. Stephens.

5. Juv. ♀ P. Witch Creek, Colorado Desert, California. F. Stephens.

457. *Neotoma desertorum* Merriam.

Neotoma desertorum Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 125. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 215. Zool. Ser.

DEATH VALLEY WOOD RAT.

1-3. Adult ♂ Coll. Lone Willow Springs, California. E. Heller.

4-5. Adult ♀ Coll. Lone Willow Springs, California. E. Heller.

6-7. Adult ♂ Coll. Copper City, California. E. Heller.

8. Adult ♀ Coll. Copper City, California. E. Heller.

9-10. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.

11. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.

- 12-16. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
17. Adult ♀ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
- 18-23. Adult ♂ Topotypes. Coll. Furnace Creek, Death Valley, California. E. Heller.
- 24-25. Adult ♀ Topotypes. Coll. Furnace Creek, Death Valley, California. E. Heller.
- 26-29. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
30. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
31. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
- 32-33. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
34. Adult ♂ Coll. Coso Mountains, California. E. Heller.
35. Adult ♀ Coll. Coso Mountains, California. E. Heller.
36. Adult ♂ Coll. Mesquite Valley, California. E. Heller.
37. Adult ♂ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 38-39. Adult ♀ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 40-41. Juv. ♂ P. Candelaria, Nevada. J. Rowley.
42. Adult ♀ P. Candelaria, Nevada. J. Rowley.

a. Neotoma desertorum sola Merriam.

- Neotoma desertorum sola* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 126. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 215. Zoöl. Ser.

LONELY WOOD RAT.

- 1-5. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 6-17. Adult ♀ Coll. Fort Tejon, California. E. Heller.

458. *Neotoma fallax* Merriam.

- Neotoma fallax* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 123. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 216. Zoöl. Ser.

DECEITFUL WOOD RAT.

- 1-3. Adult ♂ P. Boulder Creek, Colorado. R. T. Young.
- 4-6. Adult ♀ P. Boulder, Colorado. R. T. Young.
7. Juv. ♀ P. Boulder, Colorado. R. T. Young.

459. *Neotoma intermedia* Rhoads.

Neotoma intermedia Rhoads, Amer. Nat., xxviii, 1894, p. 69.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161.
 Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.
 Pub., IV, Pt. I, 1904, p. 284. Zool. Ser. *Id.* Check-L. Mamm.
 N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 216.
 Zool. Ser.

Neotoma californica Price, Proc. Calif. Acad. Scien., 1894, p.
 154, pl. XI.

RHOADS'S WOOD RAT.

- 1-7. Adult ♂ P. Riverside, California. E. Heller.
- 8-10. Adult ♀ P. Riverside, California. E. Heller.
- 11-12. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada.
W. W. Price.
13. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada.
W. W. Price.
- 14-16. Adult ♂ P. San Antonio, San Bernardino County, Cali-
fornia. W. W. Price.
- 17-18. Adult ♀ P. San Antonio, San Bernardino County, Cali-
fornia. W. W. Price.
19. Adult ♀ P. Jamul, San Diego County, California. W. W.
Price.
20. Adult ♂ Exch. Sanos Cedros, Lower California, Mexico.
Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
21. Adult ♀ Exch. Sanos Cedros, Lower California, Mexico
Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
22. Adult ♂ Coll. Hanson Lagoon, Lower California, Mexico.
E. Heller.
- 23-24. Adult ♀ Coll. Hanson Lagoon, Lower California, Mexico.
E. Heller.
25. Adult ♂ Coll. San Matias Spring, Lower California, Mexico.
E. Heller.
26. Adult ♀ Coll. San Matias Spring, Lower California, Mexico.
E. Heller.
- 27-28. Adult ♂ Coll. Head of San Antonio River, Lower Cali-
fornia, Mexico. E. Heller.
- 29-30. Adult ♀ Coll. Head of San Antonio River, Lower Cali-
fornia, Mexico. E. Heller.
31. Adult ♂ Coll. San Antonio, Lower California, Mexico.
E. Heller.
- 32-34. Adult ♀ Coll. San Antonio, Lower California, Mexico.
E. Heller.

35. Adult ♂ Coll. Aqua Escondido, Lower California, Mexico. E. Heller.
36. Adult ♀ Coll. Aqua Escondido, Lower California, Mexico. E. Heller.
37. Adult ♂ Coll. Rosarito, Lower California, Mexico. E. Heller.
- 38-39. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.
40. Adult ♂ Coll. Rosarito Divide, Lower California, Mexico. E. Heller.
- 41-42. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 43-49. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 50-52. Adult ♂ Coll. Vallecitos, Lower California, Mexico. E. Heller.
- 53-57. Adult ♀ Coll. Vallecitos, Lower California, Mexico. E. Heller.
58. Adult ♂ Coll. La Grulla, Lower California, Mexico. E. Heller.
59. Adult ♀ Coll. La Grulla, Lower California, Mexico. E. Heller.
- 60-62. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 63-66. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
67. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 68-70. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
71. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
- 72-73. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
74. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
75. Adult ♂ Coll. Santa Rosa, Lower California, Mexico. E. Heller.

a. Neotoma intermedia gilva Rhoads.

Neotoma intermedia gilva Rhoads, Amer. Nat., xxviii, 1894, p.

70. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.

162. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., VI, 1905, p. 217. Zool. Ser.

Neotoma venusta True, Proc. U. S. Nat. Mus., 1894, p. 354.

YELLOW WOOD RAT.

1. Adult ♂ Exch. Jacumba, San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
2. Adult ♀ Exch. Jacumba, San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
3. Juv. ♀ Exch. Palmetto Springs, San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 4-7. Adult ♂ Coll. Whitewater, San Diego County, California. E. Heller.
- 8-13. Adult ♀ Coll. Whitewater, San Diego County, California. E. Heller.

b. *Neotoma intermedia albigula* (Hartley).

Neotoma albigula Hartley, Proc. Calif. Acad. Scien., 2nd Ser., IV, 1894, p. 157, pl. XII.

Neotoma intermedia albigula Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 162. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 285. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 217. Zoöl. Ser.

WHITE-THROATED WOOD RAT.

1. Adult ♂ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y. Price & Condit.
2. Adult ♀ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y. H. H. Kaey.
- 3-4. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 5-7. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
8. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
9. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

460. *Neotoma campestris* Allen.

Neotoma campestris Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 322. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 218. Zoöl. Ser.

FIELD WOOD RAT.

1. Adult ♀ Paratype. Exch. Pendennis, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Juv. ♂ Paratype. Exch. Pendennis, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

461. *Neotoma bella* Bangs.

Neotoma bella Bangs, Proc. N. Eng. Zool. Club, 1, 1899, p. 66.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, Append.,
 p. 429. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &
 W. Indies, F. C. M. Pub., VI, 1905, p. 218. Zool. Ser.

BEAUTIFUL WOOD RAT.

- 1-5. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 6. Adult ♀ Coll. Morongo Pass, California. E. Heller.
- 7-8. Adult ♀ Coll. Whitewater, California. E. Heller.
- 9-12. Adult ♂ Topotypes. Coll. Palm Springs, California. E. Heller.
- 13-19. Adult ♀ Topotypes. Coll. Palm Springs, California. E. Heller.
- 20. Adult ♂ Coll. Burn's Cañon, California. E. Heller.
- 21. Adult ♀ Coll. Old Woman's Spring, California. E. Heller.
- 22. Adult ♂ Coll. Warren's Well, California. E. Heller.
- 23. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 24-25. Adult ♀ Coll. Oro Grande, California. E. Heller.

a. *Neotoma bella felipensis* Elliot.

Neotoma bella felipensis Elliot, Pub. Field Columb. Mus., 111,
 1903, p. 217. Zool. Ser. *Id.* Mamm. Middle Amer. & W. In-
 dies, F. C. M. Pub., IV, Pt. 1, 1904, p. 286. Zool. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., VI, 1905, p. 218. Zool. Ser.

SAN FELIPE DESERT RAT.

- 1-8. Adult ♂ Type and paratypes. Coll. San Felipe, Lower California, Mexico. E. Heller.
- 9-15. Adult ♀ Paratypes. Coll. San Felipe, Lower California, Mexico. E. Heller.
- 16. Adult ♂ Coll. Cañon Viento, Lower California, Mexico. E. Heller.
- 17. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 18-21. Adult ♀ Coll. Palomar, Lower California, Mexico. E. Heller.

462. *Neotoma orizabæ* Merriam.

Neotoma orizabæ Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 122.
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV,
 Pt. 1, 1904, p. 286. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 219. Zool. Ser.

ORIZABA WOOD RAT.

- 1-2. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
 3-4. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
 5-6. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

463. *Neotoma goldmani* Merriam.

Neotoma goldmani Merr., Proc. Biol. Soc. Wash., xvi, 1903, p. 48.
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 288. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 220. Zoöl. Ser.

GOLDMAN'S WOOD RAT.

1. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
 2. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
 3-4. Juv. ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

Genus 136. **Teonoma. Bushy-tailed Wood Rats.**

Teonoma Gray, List Spec. Mamm. Brit. Mus., 1843, p. 117. Type *Myoxus drummondi* Richardson.

464. *Teonoma cinerea* (Ord).

Mus cinerea Ord, Guth. Geogr., 2nd Am. ed., ii, 1815, p. 292.
Neotoma cinerea Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 163, fig. 35. Zoöl. Ser.
Teonoma cinerea Elliot, Check-L. Mamm. N. Am. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 220. Zoöl. Ser.

GRAY BUSHY-TAILED WOOD RAT.

- 1-7. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
 8-12. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
 13. Juv. ♂ P. Woodfords, Alpine County, California. W. W. Price.
 14-17. Juv. ♀ P. Woodfords, Alpine County, California. W. W. Price.

18. Adult ♂ P. Canadian National Park, Alberta, Canada.
G. F. Dippie.
19. Juv. ♂ P. Canadian National Park, Alberta, Canada.
G. F. Dippie.
20. Adult — P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
21. Juv. ♂ P. Jackson Lake, Wyoming. T. R. Wilson.

a. *Teonoma cinerea drummondi* (Richardson).

Myoxus drummondi Rich., Zoöl. Jour., III, 1828, p. 517.

Neotoma cinerea drummondi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 164. Zoöl. Ser.

Teonoma cinerea drummondi Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, VI, 1905, p. 221. Zoöl. Ser.

DRUMMOND'S BUSHY-TAILED WOOD RAT.

1. Adult ♂ P. Willow River, Cariboo, British Columbia, Canada.
C. K. Worthern.
2. Adult ♂ P. Carpenter's Mountain, Cariboo, British Columbia,
Canada. C. K. Worthern.
3. Adult ♀ P. Carpenter's Mountain, Cariboo, British Columbia,
Canada. C. K. Worthern.

b. *Teonoma cinerea occidentalis* (Baird).

Neotoma occidentalis Baird, Proc. Acad. Nat. Scien. Phil., 1855,
p. 335.

Neotoma cinerea occidentalis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 164. Zoöl. Ser.

Teonoma cinerea occidentalis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 221. Zoöl. Ser.

WESTERN BUSHY-TAILED WOOD RAT.

- 1-4. Adult ♂ Coll. Happy Lake, Clallam County, Washing-
ton. D. G. Elliot.
- 5-6. Adult ♀ Coll. Happy Lake, Clallam County, Washing-
ton. D. G. Elliot.
- 7-12. Juv. ♂ Coll. Happy Lake, Clallam County, Washington.
D. G. Elliot.
- 13-14. Juv. ♀ Coll. Happy Lake, Clallam County, Washington.
D. G. Elliot.
- 15-18. Adult ♂ Coll. Boulder Creek, Clallam County, Washing-
ton. D. G. Elliot.
19. Adult ♀ Coll. Boulder Creek, Clallam County, Washing-
ton. D. G. Elliot.
- 20-21. Juv. ♀ Coll. Boulder Creek, Clallam County, Washing-
ton. D. G. Elliot.

22. Juv. ♂ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.
23. Adult ♂ Coll. Campbell's Ranch, Clallam County, Washington. D. G. Elliot.
- 24-25. Adult ♂ Coll. Requa, California. E. Heller.
26. Adult ♂ P. Chilliwack, British Columbia, Canada. A. C. Brookes.
27. Adult ♂ P. Columbia Falls, Montana. A. C. Brookes.

c. Teonoma cinerea columbiana (Elliot).

Neotoma cinerea columbiana Elliot, Pub. Field Columb. Mus., I, 1899, p. 255. (Footnote.) Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 165. Zoöl. Ser.

Teonoma cinerea columbiana Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 221. Zoöl. Ser.

BRITISH COLUMBIA BUSHY-TAILED WOOD RAT.

1. Adult—Type. Exch. Ducks, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
2. Adult ♂ P. Midway, Kettle River, British Columbia, Canada. G. F. Dippie.

465. *Teonoma acraea* (Elliot).

Teonoma cinerea acraea Elliot, Pub. Field Columb. Mus., III, 1903, p. 247. Zoöl. Ser.

Teonoma acraea Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 221. Zoöl. Ser.

MOUNTAIN BUSHY-TAILED WOOD RAT.

- 1-2. Adult ♀ Type and paratype. Coll. Hot Springs, Mt. Whitney, California. E. Heller.
3. Juv. ♂ Paratype. Coll. Hot Springs, Mt. Whitney, California. E. Heller.
- 4-6. Adult ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
- 7-8. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.

466. *Teonoma fusca* (True).

Neotoma occidentalis fusca True, Proc. U. S. Nat. Mus., 1894, p. 354.

Neotoma cinerea fusca Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 165. Zoöl. Ser.

Teonoma fusca Elliot, Pub. Field Columb. Mus., III, 1903, p. 187. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 222. Zoöl. Ser.

FUSCOUS BUSHY-TAILED WOOD RAT.

1-7. Adult ♂ Coll. Florence, Oregon. E. Heller.

8-9. Adult ♀ Coll. Florence, Oregon. E. Heller.

a. *Teonoma fusca apicalis* (Elliot).

Neotoma fusca apicalis Elliot, Pub. Field Columb. Mus., III, 1903, p. 160. Zoöl. Ser.

Teonoma fusca apicalis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 222. Zoöl. Ser.

WHITE-TIPPED BUSHY-TAILED WOOD RAT.

1-5. Adult ♂ Type and paratypes. Coll. Gardiner, Coos County, Oregon. E. Heller.

6-8. Adult ♀ Paratypes. Coll. Gardiner, Coos County, Oregon. E. Heller.

467. *Teonoma grangeri* (Allen).

Neotoma grangeri Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 324. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 165. Zoöl. Ser.

Teonoma grangeri Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

GRANGER'S BUSHY-TAILED WOOD RAT.

1. Adult ♂ Exch. Hill City, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

2. Juv. ♀ Exch. Hill City, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

468. *Teonoma oreolestes* (Merriam).

Neotoma oreolestes! Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 128. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 166. Zoöl. Ser.

Teonoma oreolestes Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

COLORADO BUSHY-TAILED WOOD RAT.

1-3. Adult ♂ P. Boulder, Colorado. R. T. Young.

4-7. Adult ♀ P. Boulder, Colorado. R. T. Young.

8. Adult ♀ P. Nederland, Colorado. R. T. Young.

469. *Teonoma rupicola* (Allen).

Neotoma rupicola Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 323. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 166. Zoöl. Ser.

Teonoma rupicola Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

ROCK-DWELLING BUSHY-TAILED WOOD RAT.

- 1-2. Adult ♂ Exch. Corral Draw, Pine Ridge, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Juv. ♀ Exch. Corral Draw, Pine Ridge, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
4. Adult ♂ Exch. Spring Creek, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
5. Adult ♀ Exch. Cheyenne River, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

470. *Neotoma cinnamomea* (Allen).

Neotoma cinnamomea Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 331. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 166. Zoöl. Ser.

Neotoma cinnamomea Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

CINNAMON BUSHY-TAILED WOOD RAT.

- 1-3. Adult ♂ Paratypes. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
4. Adult ♀ Paratype. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

Genus 137. **Hodomys.**

Hodomys Merr., Proc. Acad. Nat. Scien. Phil., 1894, p. 232. Type
Neotoma alleni Merriam.

471. *Hodomys alleni* (Merriam).

Neotoma alleni Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 168.

Hodomys alleni Elliot, Mamm. Middle Amer. & W. Indies, F. C.

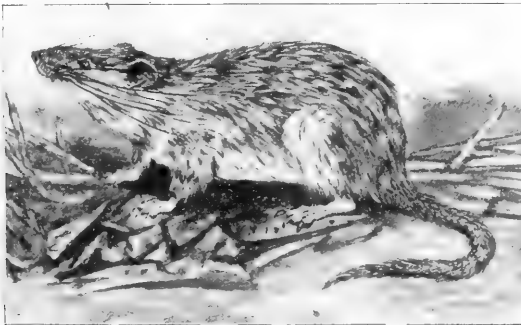


FIG. XXXIV. *HODOMYS ALLENI*. ALLEN'S WOOD RAT.

M. Pub., IV, Pt. I, 1904, p. 297, figs. 50, XLIV. Zool. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,
 VI, 1905, p. 226. Zool. Ser.

ALLEN'S WOOD RAT.

1. Adult ♀ Exch. Valle de Banderas, Territorio de Tepic, México. Am. Mus. Nat. Hist. N. Y. A. C. Buller.

Subfamily VI. **Microtinæ.**

Genus 138. **Phenacomys. Voles.**

Phenacomys Merr., N. Am. Faun., No. 2, 1889, p. 28. Type *Phenacomys intermedius* Merriam.

472. Phenacomys oreophilus Merriam.

Phenacomys orophilus! Merr., N. Am. Faun., No. 5, 1891, p. 65.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 168,
 fig. 36. Zool. Ser.

Phenacomys oreophilus Elliot, Check-L. Mamm. N. Amer. Cont.
 & W. Indies, F. C. M. Pub., VI, 1905, p. 226. Zool. Ser.

MOUNTAIN VOLE.

1. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
2. Adult ♀ P. Pyramid Peak, Eldorado County, California.
 W. W. Price.

473. Phenacomys olympicus Elliot.

Phenacomys olympicus Elliot, Pub. Field Columb. Mus., I, 1899,
 p. 225. Zool. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 168. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 227. Zool. Ser.

Microtus pumilus Elliot, Pub. Field Columb. Mus., I, 1899, p. 226.
 Zool. Ser. Juv.

OLYMPIC MOUNTAINS VOLE.

- 1-4. Adult ♂ Type and paratypes. Coll. Happy Lake, Clallam
 County, Washington. D. G. Elliot.
5. Adult ♀ Paratype. Coll. Happy Lake, Clallam County,
 Washington. D. G. Elliot.
6. Adult ♀ Coll. Boulder Lake, Clallam County, Washington.
 D. G. Elliot.
7. Juv. ♂ Topotype. Coll. Happy Lake, Clallam County,
 Washington. Type of *M. pumilus*. D. G. Elliot.
- 8-9. Juv. ♀ Topotypes. Coll. Happy Lake, Clallam County,
 Washington. D. G. Elliot.

Genus 139. **Evotomys. Red-backed Voles.**

Evotomys Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 186. Type
Mus rutilus Pallas.

474. Evotomys dawsoni Merriam.

Evotomys dawsoni Merr., Amer. Nat., xxii, 1888, p. 650. Elliot,
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 172. Zool.
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.
M. Pub., VI, 1905, p. 229. Zool. Ser.

DAWSON'S RED-BACKED VOLE.

1. Juv. ♂ P. Cariboo, British Columbia, Canada. C. K. Worthern.

475. Evotomys gapperi (Vigors).

Arvicola gapperi Vigors, Zool. Jour., v, 1830, p. 204, pl. ix.

Evotomys fuscodorsalis Allen, Bull. Am. Mus. Nat. Hist. N. Y.,
1894, p. 103.

Evotomys gapperi Elliot, Syn. N. Am. Mamm.; F. C. M. Pub., II,
1901, p. 172, fig. 37. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 230. Zool. Ser.

GAPPER'S RED-BACKED VOLE.

1. Adult ♂ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 2-4. Adult ♀ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 5-6. Adult ♀ Exch. Forks of Tobique River, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
7. Adult — Exch. Andover, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 8-12. Adult ♂ Exch. Trousers Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
13. Adult ♀ Exch. Trousers Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 14-17. Adult ♂ Coll. Dalhousie, New Brunswick. T. Surber.
- 18-19. Juv. ♂ Coll. Dalhousie, New Brunswick. T. Surber.
20. Adult ♀ Coll. Dalhousie, New Brunswick. T. Surber.
21. Juv. ♀ Coll. Dalhousie, New Brunswick. T. Surber.
22. Adult ♂ Coll. Restigouche River, New Brunswick. T. Surber.
23. Adult ♀ Coll. Restigouche River, New Brunswick. T. Surber.
- 24-25. Adult ♂ Coll. Metapedia, Province of Quebec, Canada. T. Surber.

- 26-28. Adult ♂ Coll. Salmon Lake, Province of Quebec, Canada.
T. Surber.
29-35. Adult ♂ Coll. Lake Edward, Province of Quebec, Canada.
T. Surber.
36-39. Adult ♀ Coll. Lake Edward, Province of Quebec, Canada.
T. Surber.
40-41. Adult ♂ P. Red Deer River, Alberta, Canada. G. F.
Dippie.

a. Evotomys gapperi ochraceus Miller.

Evotomys gapperi ochraceus Miller, Proc. Bost. Soc. Nat. Hist.,
xxvi, 1894, p. 193. Elliot, Syn. N. Am. Mamm., F. C. M.
Pub., II, 1901, p. 172. Zool. Ser. *Id.* Check-L. Mamm. N.
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 230.
Zool. Ser.

OCHRACEOUS RED-BACKED VOLE.

- 1-2. Adult ♂ P. Kensington, Prince Edward Island, Canada.
R. T. Young.
3. Adult ♀ P. Alberton, Prince Edward Island, Canada.
R. T. Young.
4. Adult ♂ P. Alberton, Prince Edward Island, Canada.
R. T. Young.

b. Evotomys gapperi galii (Merriam).

Evotomys galei Merr., N. Am. Faun., No. 4, 1890, p. 23, pl. II,
fig. 3.

Evotomys gapperi galei Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
II, 1901, p. 173. Zool. Ser.

Evotomys gapperi galii Elliot, Check-L. Mamm. N. Amer. Cont. &
W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zool. Ser.

GALE'S RED-BACKED VOLE.

1. Adult ♂ P. Nederland, Colorado. R. T. Young.
2-3. Adult ♀ P. Nederland, Colorado. R. T. Young.

c. Evotomys gapperi saturatus Rhoads.

Evotomys gapperi saturatus Rhoads, Proc. Acad. Nat. Scien. Phil.,
1894, p. 284. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
1901, p. 174. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.
& W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zool. Ser.

RICH-COLORED RED-BACKED VOLE.

1. Adult ♂ P. Mount Baker Range, British Columbia, Canada.
C. K. Worthern.
2. Adult ♀ P. Mount Baker Range, British Columbia, Canada.
C. K. Worthern.

476. *Evotomys brevicaudus* (Merriam).

Evotomys gapperi brevicaudus Merriam, N. Am. Faun., No. 5, 1891, p. 119, pl. III, figs. 7, 8.

Evotomys brevicaudus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 174. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zoöl. Ser.

SHORT-TAILED RED-BACKED VOLE.

1. Adult ♂ P. Park Siding, Michigan. C. Brandler.
2. Adult ♀ P. Park Siding, Michigan. C. Brandler.
- 3-5. Adult ♂ Topotypes. Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

477. *Evotomys carolinensis* Merriam.

Evotomys carolinensis Merr., Am. Jour. Scien., 3d Ser., xxxvi, 1888, p. 460. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 174. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zoöl. Ser.

CAROLINA RED-BACKED VOLE.

- 1-7. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
- 8-12. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
13. Juv. ♂ Coll. Black Mountain, West Virginia. T. Surber.
14. Adult ♀ Coll. Job's Knob Mountain, West Virginia. T. Surber.

478. *Evotomys obscurus* Merriam.

Evotomys obscurus Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 72. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 176. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 232. Zoöl. Ser.

DUSKY RED-BACKED VOLE.

1. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.

479. *Evotomys nivarius* Bailey.

Evotomys nivarius Bailey, Proc. Biol. Soc. Wash., XI, 1897, p. 136. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 177. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 233. Zoöl. Ser.

SNOW-LOVING RED-BACKED VOLE.

- 1-8. Adult ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 9-18. Adult ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
19. Adult ♂ Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.

20-22. Adult ♀ Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.

Genus 140. **Microtus. Meadow Voles.**

- Microtus** Schrank, Fauna Boica, I, 1ste Abth., 1798, pp. 66, 72.
 Type *Mus arvalis* Palläs.
Arvicola Lacép., Tab. Div. Sous-div. Ord. et Gen. Mamm., 1799, p. 10.
Mynomes Rafin., Am. Month. Mag., II, 1817, p. 45.
Psammomys Le Conte, Ann. N. Y. Lyc. Nat. Hist., 1830, p. 132.
 (nec Cretzschmar.)
Pitymys McMurt., Cuv. Anim. Kingd., Am. ed., I, Append., 1831, p. 434. (Footnote.)
Ammomys Bon., Sagg. Dist. Met. degli. Anim. Vert., 1831, p. 20. (Footnote.)
Pinemys Less., Hist. Nat. Mamm. et Ois. découv. depuis 1788, Ouvres de Buffon, v, 1836, p. 436.
Hemiotomys Sélys Longchamps, Essai Mon. Campan. Envir. Liège, 1836, p. 7, pl. 1.
Lagurus Glog., Hand-u. Hilfsb. Naturg., 1841, p. 97.
Neodon Hodgs., Ann. Mag. Nat. Hist., 2d Ser., III, 1849, p. 203.
Paludicola Blas., Naturgesch. Säugeth. Deutsch., 1857, pp. 333-334, 343-368, figs. 183-201.
Agricola Blas., Naturgesch. Säugeth. Deutsch., 1857, pp. 334-335, figs. 202-206.
Chilotus Baird, N. Am. Mamm., 1857, p. 516.
Pedomys Baird, N. Am. Mamm., 1857, p. 517.
Praticola Fatio, Les Campagn. Bass. Léman, Ass. Zool. Léman, 1867, pp. 36, 63, 75, pl. I, figs. 5-17, pls. III-V. (Part.)
Sylvicola Fatio, Les Campagn. Bass. Léman, Ass. Zool. Léman, 1867, pp. 63-72, pl. I, figs. 18-25, pl. VI.
Terricola Fatio, Les Campagn. Bass. Léman, Ass. Zool. Léman, 1867, pp. 73, 75.
Ochetomys Fitzin., Sitzungs. K. Akad. Wiss. Wien., LVI, 1867, pp. 103-105.
Micrurus Forsyth-Major, Att. dell. Soc. Tosc. Scien. Nat. Pisa, III, 1877, p. 126.
Eremiomys Polyakoff, Mém. Acad. Imp. Scien. St. Pétersb., xxxix, Suppl., 1881, pp. 35, 38, figs. 1-2.
Neofiber True, Science, IV, 1884, p. 34.

- Campicola* Schulze, Schrift. Natur. Ver. Harz. Wernig., v, 1890, pp. 24-25.
Tetramerodon Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 282.
Aulacomys Rhoads, Amer. Nat., xxviii, 1894, p. 182, figs. 1-5.
Orthriomys Merr., Proc. Biol. Soc. Wash., xii, 1898, p. 106.
Herpetomys Merr., Proc. Biol. Soc. Wash., xii, 1898, p. 107.

Subgenus A. *Microtus*.**480. *Microtus pennsylvanicus* (Ord).**

- Mus pennsylvanicus* Ord, Guth. Geog., 2d Am. ed., ii., 1815, p. 292.
Mynomes pratensis Rafin., Amer. Month. Mag., ii, 1817, p. 45.
Lemmus noveboracensis Rafin., Ann. Nat., 1820, p. 3.
Arvicola palustris Harl., Faun. Amer., 1825, pp. 136-138.
Arvicola riparius Ord, Jour. Acad. Nat. Scien. Phil., iv, Pt. ii, 1825, pp. 305-306.
Arvicola hirsutus Emmons, Rept. Quad. Mass., 1840, p. 60.
Arvicola alborufescens Emmons, Rept. Quad. Mass., 1840, pp. 60-61.
Arvicola fulva Aud. & Bachm., Proc. Acad. Nat. Scien. Phil., 1841, p. 96.
Arvicola nasuta Aud. & Bachm., Proc. Acad. Nat. Scien. Phil., 1841, pp. 96-97.
Arvicola rufescens De Kay, Nat. Hist. N. Y., Zoöl., i, 1842, p. 85.
Arvicola oneida De Kay, Nat. Hist. N. Y., Zoöl., i, 1842, pp. 88-89.
Arvicola dekayi Aud. & Bachm., Quad. N. Amer., iii, 1854, pp. 287-288.
Arvicola riparia var. *longipilis* Baird, N. Am. Mamm., 1857, p. 524.
Arvicola rufidorsum Baird, N. Am. Mamm., 1857, p. 526.
Microtus pennsylvanicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 179, fig. 38. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 234. Zoöl. Ser.

PENNSYLVANIA MEADOW VOLE.

1. Adult ♂ Exch. Pico, Vermont. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Juv. ♂ Exch. Pico, Vermont. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Adult ♂ Exch. Hartland, Vermont. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 4-6. Adult ♂ Exch. Nyack, New York. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.

7. Adult ♀ Exch. Nyack, New York. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 8-9. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 10-11. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 12-13. Adult ♀ Exch. Suffolk County, New York. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
14. Adult ♂ Exch. Highland, New York. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
15. Adult ♂ Exch. Granton, Hackensack Meadows, New Jersey. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
16. Adult ♀ Exch. Nordhoff, New Jersey. Am. Mus. Nat. Hist. N. Y.
- 17-21. Adult ♂ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 22-27. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
28. Juv. ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 29-32. Adult ♀ Pres. Jackson Park, Chicago, Illinois. L. Kenkel.
- 33-35. Adult ♂ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
36. Adult ♀ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
- 37-38. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 39-40. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
41. Adult ♀ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 42-43. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
44. Adult ♂ Exch. Forks of the Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 45-49. Adult ♀ Exch. Forks of the Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 50-54. Adult ♂ Coll. Dalhousie, New Brunswick, Canada. T. Surber.
- 55-57. Adult ♀ Coll. Dalhousie, New Brunswick, Canada. T. Surber.
58. Adult ♂ Coll. Restigouche River, New Brunswick, Canada. T. Surber.

59. Adult ♀ Coll. Restigouche River, New Brunswick, Canada. T. Surber.
 60-62. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
 63. Adult ♀ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
 64. Adult ♂ P. Lake Edward, Prince Edward Island, Canada. R. T. Young
 65. Adult ♂ Pres. Beaver Dam, Wisconsin. W. E. Snyder.

a. Microtus pennsylvanicus acadicus Bangs.

Microtus pennsylvanicus acadicus Bangs, Amer. Nat., xxxi, 1897, p. 239. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 180. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 235. Zoöl. Ser.

ACADIAN VOLE.

- 1-2. Adult ♀ P. Mount Stewart, Prince Edward Island, Canada. R. T. Young.
 3. Adult ♂ P. Georget, Prince Edward Island, Canada. R. T. Young.
 4-12. Adult ♂ P. Allerton, Prince Edward Island, Canada. R. T. Young.
 13-17. Adult ♀ P. Allerton, Prince Edward Island, Canada. R. T. Young.

b. Microtus pennsylvanicus modestus (Baird).

Arvicola modesta Baird, N. Am. Mamm., 1857, p. 535.

Arvicola insperatus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 347.

Microtus pennsylvanicus modestus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 180. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 236. Zoöl. Ser.

SAWATCH MEADOW VOLE.

- 1-81. Adult ♂ P. Boulder, Colorado. R. T. Young.
 82-127. Adult ♀ P. Boulder, Colorado. R. T. Young.

c. Microtus pennsylvanicus fontigenus (Bangs).

Microtus fontigenus Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 48.

Microtus pennsylvanicus fontigenus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 181. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 236. Zoöl. Ser.

FOREST VOLE.

- 1-2. Adult ♂ Topotypes. Coll. Lake Edward, Province of Quebec, Canada. T. Surber.
3. Adult ♀ Topotype. Coll. Lake Edward, Province of Quebec, Canada. T. Surber.

481. *Microtus drummondi* (Audubon & Bachman).

Arvicola drummondii Aud. & Bachm., Quad. N. Am., III, 1854, p. 166.

Arvicola (Mynomes) microcephalus Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 286.

Microtus stonei Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 5.

Microtus drummondi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 181. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 236. Zoöl. Ser.

DRUMMOND'S MEADOW VOLE.

- 1-7. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.
- 8-10. Adult ♀ P. Blindman River, Alberta, Canada. G. F. Dippie.
11. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
12. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
13. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
- 14-15. Adult ♀ Coll. Bottineau, North Dakota. W. E. Snyder.
16. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
17. Adult ♂ Coll. Steele, North Dakota. W. E. Snyder.

482. *Microtus terrænovæ* (Bangs).

Arvicola terrænovæ Bangs, Proc. Biol. Soc. Wash., IX, 1894, p. 129.

Microtus terrænovæ Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 182. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 238. Zoöl. Ser.

NEWFOUNDLAND MEADOW VOLE.

- 1-2. Adult ♂ Topotypes. Exch. Cordroy, Newfoundland. Am. Mus. Nat. Hist. N. Y.

483. *Microtus nanus* (Merriam).

Arvicola nanus Merr., N. Am. Faun., No. 5, 1891, p. 62, pl. II, figs. 5, 6.

Microtus nanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 184. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.

DWARF MEADOW VOLE.

- 1-16. Adult ♂ P. Nederland, Colorado. R. T. Young.
 17-30. Adult ♀ P. Nederland, Colorado. R. T. Young.
 31-32. Adult ♂ P. Eldora, Colorado. R. T. Young.
 33-35. Adult ♀ P. Eldora, Colorado. R. T. Young.

a. *Microtus nanus canescens* Bailey.

- Microtus nanus canescens* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 87. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.

GRAY MEADOW VOLE.

1. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthen.

484. *Microtus canicaudus* Miller.

- Microtus canicaudus* Miller, Proc. Biol. Soc. Wash., XI, 1897, p. 67. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.

GRAY-TAILED MEADOW VOLE.

- 1-6. Adult ♂ Topotypes. Coll. McCoy, Polk County, Oregon. E. Heller.
 7. Adult ♀ Coll. Beaverton, Oregon. E. Heller.

485. *Microtus dutcheri* Bailey.

- Microtus dutcheri* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 85. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.

DUTCHER'S MEADOW VOLE.

- 1-3. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
 4. Juv. ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
 5-16. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
 17-20. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
 21-28. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
 29-31. Adult ♂ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
 32-35. Adult ♀ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

- 36-41. Adult ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
 42. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
 43. Adult ♂ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
 44. Adult ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
 45. Juv. ♂ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.

486. *Microtus californicus* (Peale).

Arvicola californica Peale, U. S. Expl. Exped., Mamm. & Ornith., VIII, 1848, p. 46.

Arvicola trowbridgi Baird, N. Am. Mamm., 1857, p. 529.

Microtus californicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 186. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 240. Zoöl. Ser.

CALIFORNIA MEADOW VOLE.

- 1-16. Adult ♂ Coll. Nicasio, California. E. Heller.
 17-22. Adult ♀ Coll. Nicasio, California. E. Heller.
 23-28. Adult ♂ Coll. Petaluma, California. E. Heller.
 29-33. Adult ♀ Coll. Petaluma, California. E. Heller.
 34-37. Adult ♂ Coll. Point Reyes, California. E. Heller.
 38-39. Adult ♀ Coll. Point Reyes, California. E. Heller.
 40. Adult ♂ Coll. Los Angeles, California. E. Heller.
 41-42. Adult ♀ Coll. Los Angeles, California. E. Heller.
 43-44. Adult ♂ Coll. Fort Tejon, California. E. Heller.
 45-47. Adult ♀ Coll. Fort Tejon, California. E. Heller.
 48-51. Adult ♂ Coll. Piru Creek, California. E. Heller.
 52-56. Adult ♀ Coll. Piru Creek, California. E. Heller.
 57-59. Adult ♂ Coll. Oro Grande, California. E. Heller.
 60-61. Adult ♀ Coll. Oro Grande, California. E. Heller.

a. *Microtus californicus hyperythrus* Elliot.

Microtus californicus hyperythrus Elliot, Pub. Field Columb. Mus., III, 1903, p. 161. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 302, figs. 51, XLV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 240. Zoöl. Ser.

REDDISH MEADOW VOLE.

1. Adult ♂ Type.* Coll. La Grulla, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.

*By some quite inexplicable inadvertence, the type locality for this species has been given as San Quentin, when it should have been "La Grulla."



FIG. XXXV. *MICROTUS C. HYPERYTHRUS*.
REDDISH MEADOW VOLE.

- 2-7. Adult ♀ Paratypes. Coll. La Grulla, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 8-10. Adult ♂ Coll. Aguaje de las Fresas, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 11-14. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 15. Adult ♂ Coll. Vallecitos, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 16-17. Adult ♀ Coll. Vallecitos, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 18. Adult ♂ Coll. San Antonio, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 19. Adult ♀ Coll. San Antonio, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 20-25. Adult ♂ Coll. San Quentin, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 26-31. Adult ♀ Coll. San Quentin, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.

b. Microtus californicus vallicola Bailey.

Microtus californicus vallicola Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 89. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 186. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 240. Zoöl. Ser.

VALLEY MEADOW VOLE.

- 1-13. Adult ♂ Topotypes. Coll. Lone Pine, Inyo County, California. E. Heller.
- 14. Juv. ♂ Topotype. Coll. Lone Pine, Inyo County, California. E. Heller.
- 15-25. Adult ♀ Topotypes. Coll. Lone Pine, Inyo County, California. E. Heller.

c. Microtus californicus constrictus Bailey.

Microtus californicus constrictus Bailey, N. Am. Faun., No. 17, 1900, p. 36. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 186. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 241. Zool. Ser.

COAST MEADOW VOLE.

- 1-6. Adult ♂ Coll. Mendocino, California. E. Heller.
- 7-9. Adult ♀ Coll. Mendocino, California. E. Heller.
- 10-20. Adult ♂ Coll. Eureka, California. E. Heller.
- 21-25. Adult ♀ Coll. Eureka, California. E. Heller.

487. *Microtus edax* (Le Conte).

Arvicola edax Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 405.

Microtus edax Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 187. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 241. Zool. Ser.

TULE MEADOW VOLE.

- 1-9. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 10-29. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 30. Juv. ♂ P. Portola, San Mateo County, California. W. W. Price.
- 31-33. Juv. ♀ P. Portola, San Mateo County, California. W. W. Price.
- 34. Adult ♂ Pres. Palo Alto, California. E. Heller.
- 35-37. Adult ♀ Pres. Palo Alto, California. E. Heller.
- 38-42. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 43-55. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 56-57. Adult ♂ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.
- 58-60. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.
- 61. Adult ♂ P. Big Trees, Calaveras County, California. W. W. Price.
- 62. Adult ♂ P. San Antonio, San Bernardino County, California. W. W. Price.
- 63. Adult ♀ P. Snow Mountains, Santa Clara County, California. W. W. Price.
- 64. Adult ♂ P. Stanford University, California. W. W. Price.
- 65. Juv. ♂ P. Stanford University, California. W. W. Price.

66-67. Adult ♀ P. Stanford University, California. W. W. Price.

488. *Microtus yakutatensis* Merriam.

Microtus yakutatensis Merr., Proc. Wash. Acad. Scien., 11, 1900, p. 22. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 188. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 242. Zoöl. Ser.

YAKUTAT MEADOW VOLE.

1. Juv. ♂ Topotype. Coll. Yakutat Bay, Alaska. D. G. Elliot.

489. *Microtus kadiacensis* Merriam.

Microtus kadiacensis Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 222. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 188. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 242. Zoöl. Ser.

KADIAK MEADOW VOLE.

1. Adult ♂ Coll. Kadiak, Kadiak Island, Alaska. D. G. Elliot.

2. Juv. ♀ Coll. Kadiak, Kadiak Island, Alaska. D. G. Elliot.

a. Microtus unalascensis popofensis Merriam.

Microtus unalascensis popofensis Merr., Proc. Wash. Acad. Scien., 11, 1900, p. 22. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 188. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 242. Zoöl. Ser.

POPOF ISLAND MEADOW VOLE.

1-4. Adult — Topotypes. Coll. Popof Island, Shumagin Islands, Alaska. D. G. Elliot.

5. Juv. — Topotype. Coll. Popof Island, Shumagin Islands, Alaska. D. G. Elliot.

490. *Microtus abbreviatus* Miller.

Microtus abbreviatus Miller, Proc. Biol. Soc. Wash., XIII, 1899, p. 13. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 189. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 243. Zoöl. Ser.

HALL ISLAND MEADOW VOLE.

1. Adult ♂ Topotype. Coll. Hall Island, Bering Sea, Alaska. D. G. Elliot.

2. Adult ♀ Topotype. Coll. Hall Island, Bering Sea, Alaska. D. G. Elliot.

491. *Microtus townsendi* (Bachman).

Arvicola townsendii Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 60, pl. 1.

Arvicola occidentalis Peale, U. S. Expl. Exped., Mamm. & Ornith., VIII, 1848, p. 45.

Microtus townsendi Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 190. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 243. Zoöl. Ser.

TOWNSEND'S MEADOW VOLE.

- 1-8. Adult ♂ Coll. Eureka, California. E. Heller.
- 9-12. Adult ♀ Coll. Eureka, California. E. Heller.
- 13. Adult ♂ Coll. Scottsburg, Oregon. E. Heller.
- 14-20. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
- 21-22. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 23. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 24-25. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 26-27. Adult ♂ Coll. McCoy, Oregon. E. Heller.
- 28-29. Adult ♀ Coll. McCoy, Oregon. E. Heller.

492. *Microtus longicaudus* (Merriam).

Arvicola (Mynomes) longicaudus! Merr., Amer. Nat., xxii, 1888,
 p. 934.

Microtus longicaudus Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 191. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 243. Zoöl. Ser.

LONG-TAILED MEADOW VOLE.

- 1. Adult ♂ P. Yanceys, Yellowstone Nat. Park. E. S. Thompson.

493. *Microtus mordax* (Merriam).

Arvicola (Mynomes) mordax Merr., N. Am. Faun., No. 5, 1891,
 p. 61.

Microtus vellerosus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899,
 p. 7.

Microtus cautus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899,
 p. 7.

Microtus mordax Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
 1901, p. 191. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.
 & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zoöl. Ser.

CANTANKEROUS MEADOW VOLE.

- 1-13. Adult ♂ P. Silver Lake, Amador County, California.
 W. W. Price.
- 14-28. Adult ♀ P. Silver Lake, Amador County, California.
 W. W. Price.
- 29-33. Juv. ♀ P. Silver Lake, Amador County, California.
 W. W. Price.
- 34-38. Adult ♂ P. Hermit Valley, Calaveras County, California.
 W. W. Price.

- 39-45. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 46-47. Juv. ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
48. Adult ♂ P. Edgewood, Douglas County, Nevada. W. W. Price.
49. Adult ♀ P. Canadian National Park, Alberta, Canada. G. F. Dippie.
- 50-51. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
- 52-53. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.
54. Adult ♂ P. Blue Lake, Alpine County, California. W. W. Price.
55. Adult ♀ P. Blue Lake, Alpine County, California. W. W. Price.
56. Adult ♀ P. Echo, Eldorado County, California. W. W. Price.
57. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.

494. *Microtus macrurus* Merriam.

- Microtus macrurus* Merr., Proc. Acad. Nat. Scien. Phil., 1898, p. 353. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 191. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zoöl. Ser.

OLYMPIC MEADOW VOLE.

- 1-7. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
8. Adult ♂ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.

495. *Microtus angusticeps* Bailey.

- Microtus angusticeps* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 86. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zoöl. Ser.

COAST MEADOW VOLE.

- 1-8. Adult ♂ Topotypes. Coll. Crescent City, California. E. Heller.
- 9-12. Adult ♀ Topotypes. Coll. Crescent City, California. E. Heller.
- 13-17. Adult ♂ Coll. Requa, California. E. Heller.
- 18-20. Adult ♀ Coll. Requa, California. E. Heller.

21-31. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

32-40. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

496. *Microtus alticola* (Merriam).

Arvicola (Mynomes) alticolus! Merr., N. Am. Faun., No. 3, 1890, p. 67, pl. v, figs. 1, 2, and pl. vi, figs. 1-4.

Microtus alticola Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 192. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zool. Ser.

MOUNTAIN MEADOW VOLE.

1. Juv. ♂ P. White Mountains, Arizona. W. W. Price.

2. Adult ♀ P. White Mountains, Arizona. W. W. Price.

3. Adult ♂ P. Florida, La Plata County, Colorado. C. P. Rowley.

a. *Microtus alticola leucophæus* (Allen).

Arvicola leucophæus! Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 320.

Microtus alticola leucophæus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 192. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 245. Zool. Ser.

GRAHAM MOUNTAIN MEADOW VOLE.

1-2. Adult ♀ Paratypes. P. Graham Mountains, Arizona. W. W. Price.

497. *Microtus mexicanus* (Saussure).

Arvicola (Hemiotomys) mexicanus Sauss., Rev. Mag. Zool., 2me Sér., XIII, 1861, p. 3.

Microtus mexicanus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 301. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 245. Zool. Ser.

MEXICAN MEADOW VOLE.

1-6. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

7-12. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

13. Juv. ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

14. Adult ♂ Coll. Mount Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

15-17. Adult ♀ Coll. Mount Orizabá, State of Vera Cruz, Mexico. Heller & Barber.

a. Microtus mexicanus phæus (Merriam).

Arvicola phæus! Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 171.

Microtus mexicanus phæus Elliot, Mamm. Middle Amer. & W.

Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 302. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 245. Zoöl. Ser.

COLIMA OR DARK MEADOW VOLE.

1-2. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

498. *Microtus mogollonensis* (Mearns).

Arvicola mogollonensis Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 283.

Microtus mogollonensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 246. Zoöl. Ser.

MOGOLLON MOUNTAINS MEADOW VOLE.

1. Adult ♂ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y.

Subgenus B. *Lagurus*.

499. *Microtus curtatus* (Cope).

Arvicola curtata Cope, Proc. Acad. Nat. Scien. Phil., 1868, p. 2.

Arvicola (Pedomys) austerus curtatus Coues, Mon. N. Am. Rodent., 1877, p. 215.

Microtus curtatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 195, fig. 39. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 247. Zoöl. Ser.

SHORT-TAILED MEADOW VOLE.

1-2. Juv. ♀ P. Mount Siegel, Douglas County, Nevada. W. W. Price.

Subgenus C. *Pedomys*.

500. *Microtus austerus* (Le Conte).

? *Hypudæus ochrogaster* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 592.

Arvicola austerus Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 405.

Arvicola cinnamomea Baird, N. Am. Mamm., 1857, p. 541.

Microtus austerus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 196, fig. 40. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 248. Zoöl. Ser. PRAIRIE MEADOW VOLE.

- 1-6. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 7-13. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 14-15. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 16. Adult — P. Knoxville, Iowa. G. K. Cherrie.
- 17. Adult ♂ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 18-20. Juv. ♂ P. Lawrence, Kansas. J. Rowley.
- 21. Juv. ♀ P. Lawrence, Kansas. J. Rowley.
- 22. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 23. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 24. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

501. *Microtus minor* (Merriam).

Arvicola austerus! minor Merr., Amer. Nat., XXII, 1888, p. 598.

Microtus minor Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 197. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 248. Zoöl. Ser.

LEAST UPLAND MEADOW VOLE.

- 1-5. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
- 6. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.
- 7-9. Juv. — P. Red Deer River, Alberta, Canada. G. F. Dippie.
- 10. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 11. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
- 12. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 13. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
- 14. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.

Subgenus D. *Pitymys*.

502. *Microtus pinetorum* (Le Conte).

Psammomys pinetorum Le Conte, Ann. N. Y. Lyc. Nat. Hist., III, 1830, p. 133, pl. II.

Microtus pinetorum Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 198, fig. 41. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 249. Zoöl. Ser.

PINE MEADOW VOLE.

1. Adult ♂ Exch. Suffolk County, New York. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
- 2-4. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
5. Adult ♀ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 6-10. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 11-12. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 13-14. Adult ♀ Coll. Apex, North Carolina. T. Surber.
15. Adult ♀ Coll. Catawba, South Carolina. T. Surber.

503. *Microtus nemoralis* (Bailey).

Microtus pinetorum nemoralis Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 89.

Microtus nemoralis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 199. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 249. Zool. Ser.

WOODLAND MEADOW VOLE.

- 1-2. Adult ♀ Coll. Dougherty, Indian Territory. T. Surber.
3. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.

504. *Microtus quasiater* (Coues).

Arvicola (Pitymys) pinetorum quasiater Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 191.

Microtus quasiater Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 303, fig. 52. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 249. Zool. Ser.

JALAPA MEADOW VOLE.

- 1-6. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 7-12. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 13-14. Adult ♀ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Subgenus E. *Chilotus*.**505. *Microtus oregoni* (Bachman).**

Arvicola oregoni Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 60, pl. 1.

Microtus oregoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 200, fig. 42. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 250. Zoöl. Ser.

OREGON MEADOW VOLE.

- 1-6. Adult ♂ Coll. Eureka, California. E. Heller.
- 7-10. Adult ♀ Coll. Eureka, California. E. Heller.
- 11. Adult ♂ Coll. Mendocino, California. E. Heller.
- 12-13. Adult ♀ Coll. Requa, California. E. Heller.
- 14-17. Adult ♂ Coll. Beavertown, Oregon. E. Heller.
- 18-21. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 22. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 23-25. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 26-33. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 34-37. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.

506. *Microtus serpens* Merriam.

Microtus serpens Merr., Proc. Biol. Soc. Wash., 1897, p. 75. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 250. Zoöl. Ser.

CREEPING MEADOW VOLE.

- 1-2. Adult ♂ Exch. Sumas, British Columbia, Canada. U. S. Nat. Mus. C. K. Worthern.

Subgenus F. *Arvicola*.

507. *Microtus schermaus* F. Cuvier.

Microtus schermaus F. Cuv., Dict. Scien. Natur., VI, 1817, p. 281.

SCHERMAUS VOLE.

- 1-5. Adult ♂ P. Meiringen, Switzerland. J. A. Loring.
- 6-9. Adult ♀ P. Meiringen, Switzerland. J. A. Loring.

a. *Microtus richardsoni arvicoloides* (Rhoads).

Aulacomys arvicoloides Rhoads, Amer. Nat., XXVIII, 1894, p. 182.

Microtus principalis Rhoads, Amer. Nat., XXIX, 1895, p. 940.

Microtus richardsoni arvicoloides Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 202. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 251. Zoöl. Ser.

CASCADE WATER VOLE.

- 1-2. Adult ♂ P. Mt. Baker Range, British Columbia, Canada.
C. K. Worthern.

Subgenus G. *Neofiber*.

508. *Microtus alleni* (True).

Neofiber alleni True, Science, IV, 1884, p. 34.

Microtus alleni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 203, fig. 44. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 252. Zoöl. Ser.

FLORIDA WATER VOLE.

- 1-5. Adult ♂ Coll. Gainesville, Florida. T. Surber.
6-10. Adult ♀ Coll. Gainesville, Florida. T. Surber.
11-12. Juv. ♂ Coll. Gainesville, Florida. T. Surber.
13. Juv. ♀ Coll. Gainesville, Florida. T. Surber.
14-16. Adult ♂ Coll. Enterprise, Florida. T. Surber.
17-19. Adult ♀ Coll. Enterprise, Florida. T. Surber.
20-22. Juv. ♀ Coll. Enterprise, Florida. T. Surber.
23. Juv. ♂ Coll. Enterprise, Florida. T. Surber.
24. Adult — Exch. East Micco, Florida. Am. Mus. Nat. Hist. N. Y. C. S. Allen.

Genus 141. **Fiber. Musk Rats.**

Fiber F. Cuv., Leçons d'Anat. Comp., I, 1800, tab. 1. Type *Castor zibethicus* Linnæus.

Ondatra Lacép., Tabl. Div. Sous-div. Ord. et Gen. Mamm., 1799, p. 9. (nec Link.)

Moschomys Billb., Syn. Faun. Scandinav., Mamm., I, 1828, Consp. A.

509. *Fiber zibethicus* (Linnæus).

Castor zibethicus Linn., Syst. Nat., I, 1766, p. 79.

Fiber osoyoosensis Lord, Proc. Zoöl. Soc., 1863, p. 97.

Fiber zibethicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 212, fig. 49. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 252. Zoöl. Ser.

MUSK RAT. *Ondatra*, Indian name.

1. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada.
Am. Mus. Nat. Hist. N. Y. J. Rowley.

2. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
 3. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
 - 4-5. Adult — Pres. Indiana. A. Schubert.
 - 6-9. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
 10. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
 - 11-12. Adult ♂ Pres. Chicago, Illinois. M. Kane.
 - 13-14. Juv. ♂ P. Boulder, Colorado. R. T. Young.
 - 15-16. Juv. ♀ P. Boulder, Colorado. R. T. Young.
 - 17-18. Adult — Pres. Green Bay, Wisconsin. A. Schubert.
 19. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
 20. Adult ♀ Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
 21. Adult ♂ P. Kettle River, Alberta, Canada. G. F. Dippie.
 22. Adult ♀ P. Swan Lake, Alberta, Canada. G. F. Dippie.
- a. Fiber zibethicus pallidus* Mearns.
Fiber zibethicus pallidus Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 280. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 213. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 308, fig. 55. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 253. Zoöl. Ser.
- PALE MUSK RAT.
 1-2. Adult ♂ Topotypes. Exch. Fort Verde, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 510. *Fiber spatulatus* Osgood.**
Fiber spatulatus Osgood, N. Am. Faun., No. 19, 1900, p. 36. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 214. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 254. Zoöl. Ser.
- NORTHWEST TERRITORY MUSK RAT.
 1. Adult ♂ Coll. Beaverton, Oregon. E. Heller.
 2. Adult ♂ P. Cariboo, British Columbia. C. K. Worthern.
- 511. *Fiber occipitalis* Elliot.**
Fiber occipitalis Elliot, Pub. Field Columb. Mus., III, 1903, p. 162, fig. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 254. Zoöl. Ser.
- OREGON MUSK RAT.
 1-3. Adult ♂ Paratypes. Coll. Florence, Oregon. E. Heller.
 4. Adult ♀ Type. Coll. Florence, Oregon. E. Heller.

512. Fiber obscurus Bangs.

Fiber obscurus Bangs, Proc. Biol. Soc. Wash., ix, 1894, p. 133.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 214.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 254. Zool. Ser.

DUSKY MUSK RAT.

1. Adult ♂ Exch. St. George's Bay, Newfoundland. Am.
 Mus. Nat. Hist. N. Y.

Genus 142. **Synaptomys. Lemming Voles.**

Synaptomys Baird, N. Am. Mamm., 1857, p. 558. Type *Synaptomys cooperi* Baird.

Subgenus A. **Synaptomys.****513. Synaptomys cooperi** Baird.

Synaptomys cooperi Baird, N. Am. Mamm., 1857, p. 558. Elliot,
 Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 203, fig. 45.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 255. Zool. Ser.

COOPER'S LEMMING VOLE.

1. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
2. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.

514. Synaptomys fatuus Bangs.

Synaptomys fatuus Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 47.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 204.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 256. Zool. Ser.

SILLY LEMMING VOLE.

- 1-2. Adult ♂ Topotypes. Coll. Lake Edward, Province of
 Quebec, Canada. T. Surber.
3. Adult ♀ Topotype. Coll. Lake Edward, Province of
 Quebec, Canada. T. Surber.

Genus 143. **Lemmus. Lemmings.**

Lemmus Link, Zool. Beyt. Natur., I, Pt. 2, 1795, p. 75. Type *Mus lemmus* Linnaeus.

Myodes Pallas, Zoog. Rosso-Asiat., I, 1811, p. 172.

Lemmus Rocherb., Actes Soc. Linn. Bordeaux, XII, 1841, No. 42, p. 216.

515. *Lemmus trimucronatus* (Richardson).

Arvicola trimucronatus Rich., Journ. Parry's 2d Voy., 1825, Append., p. 309.

Myodes albigularis Wagn., Schreb. Säugth., Suppl., III, 1843, p. 602.

Lemmus alascensis Merr., Proc. Wash. Acad. Scien., II, 1900, p. 26.

Lemmus trimucronatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 207, fig. 47. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 258. Zoöl. Ser.

RICHARDSON'S LEMMING.

1-33. Adult ♂ P. Point Barrow, Alaska. E. A. McIlhenny.

34-48. Adult ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

49-50. Juv. ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

516. *Lemmus lemmus* (Linnæus).

Mus lemmus Linn., Syst. Nat., I, 1766, p. 80. Miller, N. Am. Faun., No. 12, 1896, p. 37, figs. 11, 12.

EUROPEAN LEMMING.

1. Adult — P. Sweden. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 144. *Dicrostonyx*. Forked-claw Lemmings.

Dicrostonyx Glog., Gem. Hand-d. Hilfsb. Naturg., 1841, pp. xxxi. 97. Type *Mus hudsonius* Pallas.

Cuniculus Wagl., Nat. Syst. Amph., 1830, p. 121. (nec Brisson, nec Meyer.)

Myolemmus Pomel, Cat. Méth. Vert. Foss. Bass. Loire, 1854, p. 27.

Misothermus Hensel, Zeitsch. Deutsch. Geol. Gesellsch., VII, 1855, p. 492. (Part.)

Borioikon Poliakoff, Ann. au tome xxxix, Mém. Acad. St. Pétersb., No. 2, 1881, p. 35.

Tylonyx Schulze, Mamm. Europ. Hel. Abhandl. u. Vorträge Gesammtg. Naturw., Berlin, XIV, 1897, p. 83.

a. *Dicrostonyx hudsonius nelsoni* (Merriam).

Dicrostonyx nelsoni Merr., Proc. Wash. Acad. Scien., II, 1900, p. 25.

Dicrostonyx hudsonius alascensis Stone, Proc. Acad. Nat. Scien. Phil., 1900, p. 37.

Dicrostonyx hudsonius nelsoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 210, fig. 48. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 260. Zool. Ser.

NELSON'S LEMMING.

1-5. Adult ♂ P. Point Barrow, Alaska. E. A. McIlhenny.

6. Adult ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

Genus 145. **Lemmomys.**

Lemmomys Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 123.
Type *Mus talpinus* Pallas.

Ellobius Fisch., Zoogn., III, 1814, p. 72. (nec *Ellobium* Bolton, 1798, Mollusca.)

517. **Lemmomys talpinus** (Pallas).

Mus talpinus Pall., Nov. Comm. Acad. Scien. Petrop., XIV, Pt. 1, 1770, p. 568.

MOLE MOUSE.

1. Adult — P. Tamak. Th. Schmidt.

Family VII. **Spalacidae. Mole Rats.**

Subfamily I. **Spalacinae.**

Genus 146. **Spalax.**

Spalax Gueldenst., Nov. Comm. Acad. Scien. Petrop., XIV, Pt. 1, 1770, p. 409. Type *Spalax microphthalmus* Gueldenstaedt.

Ommatostergus Nordm., Keyserl. & Blas. Wirbelth. Europ., 1840, pp. VII, 31.

518. **Spalax typhlus** Pallas.

Spalax typhlus Pall., Nov. Sp. Quad. Glir. Ord., 1778, p. 76.

GREAT MOLE RAT.

1. Adult — P. Kuslendji, Turkey. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family VIII. **Geomyidæ. Pouched Rats.**Genus 147. **Geomys. Pocket Gophers.**

Geomys Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45. Type

Geomys pinetis Rafinesque = *Mus tuza* Ord.

Diplostoma Rafin., Am. Month. Mag., II, No. 1, 1817, p. 44.

Saccophorus Kuhl, Beitr. Zool. und vergl. Anat., 1820, p. 65.

Pseudostoma Say, Long's Exped. Rocky Mts., 1, 1823, p. 406.

Ascomys Licht., Abhand. K. Akad. Wiss. Berl., 1825, p. 20, fig. 2.

519. Geomys tuza (Ord).

Mus tuza Ord, Guth. Geogr., 2d Amer. ed., II, 1815, p. 292.

Geomys pinetis Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45.

Geomys tuza Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 215, fig. 50. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 261. Zool. Ser.

PINE BARRENS POCKET GOPHER.

1. Adult ♂ Coll. Rocky Ford, Georgia. T. Surber.

a. Geomys tuza floridanus (Audubon & Bachman).

Pseudostoma floridana Aud. & Bachm., Quad. N. Am., III, 1854, p. 242.

Geomys tuza floridanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 215. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 261. Zool. Ser.

FLORIDA POCKET GOPHER.

1. Adult ♂ Coll. New Berlin, Florida. T. Surber.

2-6. Adult ♀ Coll. New Berlin, Florida. T. Surber.

7. Adult ♂ Coll. Citronelle, Florida. T. Surber.

8. Adult ♀ Coll. Citronelle, Florida. T. Surber.

9. Adult ♂ Coll. St. Charles Creek, Florida. T. Surber.

10. Adult ♂ Coll. Gainesville, Florida. T. Surber.

11-13. Adult ♀ Coll. Gainesville, Florida. T. Surber.

14-15. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

b. Geomys tuza mobilensis Merriam.

Geomys tuza mobilensis Merr., N. Am. Faun., No. 8, 1895, p. 119, pls. & figs. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 216. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.

& W. Indies, F. C. M. Pub., VI, 1905, p. 262. Zool. Ser.

Geomys floridanus austrinus Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 177.

Geomys tuza austinus Elliot, Pub. Field Columb. Mus., III, 1901, p. 49. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 217. Zoöl. Ser.

MOBILE POCKET GOPHER.

- 1-3. Adult ♂ Melanistic. Coll. St. Marys, Georgia. T. Surber.
- 4-8. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
- 9-11. Adult ♀ Coll. Tarpon Springs, Florida. T. Surber.
- 12-13. Juv. ♀ Coll. Tarpon Springs, Florida. T. Surber.
14. Adult ♀ Exch. Tarpon Springs, Florida. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

520. *Geomys bursarius* (Shaw).

Mus bursarius Shaw, Trans. Linn. Soc., v, 1800, p. 227, pl. 8.
Diplostoma fusca Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45.
Geomys cinerea Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45.

Saccophorus bursarius Kuhl, Beitr. Zool., 1820, p. 65.

Mus saccatus Mitch., N. Y. Med. Rep., VI, 1821, p. 249.

Ascomys canadensis Licht., Abh. K. Akad. Wiss. Berlin, 1825, p. 20, fig. 2.

Geomys oregonensis Le Conte, Proc. Acad. Nat. Scien. Phil., VI, 1852, p. 160.

Geomys bursarius Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 217. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

SHAW'S POCKET GOPHER.

- 1-3. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
4. Juv. ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
5. Juv. ♂ Exch. St. Joseph County, Indiana. Am. Mus. Nat. Hist. N. Y. F. M. Noe.
6. Adult ♀ P. Lawrence, Kansas. J. Rowley.
7. Adult — P. —? Ward's Nat. Scien. Establ., Rochester, N. Y.

521. *Geomys lutescens* (Merriam).

Geomys bursarius lutescens Merr., N. Am. Faun., No. 4, 1890, p. 51.

Geomys lutescens Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 127. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 218. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

PALE POCKET GOPHER.

1. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 2-5. Adult ♀ P. Boulder, Colorado. R. T. Young.

522. *Geomys breviceps* Baird.

- Geomys breviceps* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 335. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 218. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

SHORT-HEADED POCKET GOPHER.

- 1-4. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 5-10. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

a. *Geomys breviceps attwateri* Merriam.

- Geomys breviceps attwateri* Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 135, pl. 9, fig. 3. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 219. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

ATTWATER'S POCKET GOPHER.

- 1-3. Adult ♂ Topotypes. Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
- 4-5. Adult ♀ Topotypes. Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

523. *Geomys texensis* Merriam.

- Geomys texensis* Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 137, pls. & figs. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 219. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 264. Zoöl. Ser.

TEXAS POCKET GOPHER.

1. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
2. Adult ♀ Exch. Fort Clark, Kinney County, Texas. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Genus 148. **Cratogeomys. Powerful Pocket Gophers.**

Cratogeomys Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 150. Type *Geomys merriami* Thomas.

524. *Cratogeomys perotensis* Merriam.

Cratogeomys perotensis Merr., Mon. Geomyidæ, N. Am. Faun.,

No. 8, 1895, p. 154, pl. 8, fig. 6. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 313. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 265. Zoöl. Ser.

PEROTE POCKET GOPHER.

1-3. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

525. *Cratogeomys estor* Merriam.

Cratogeomys estor Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 155, pl. 8, figs. 4, 5. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 314. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 265. Zoöl. Ser.

LAS VIGAS POCKET GOPHER.

1-3. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

526. *Cratogeomys castanops* (Baird).

Pseudostoma castanops Baird, Rep. Stansb. Exped. to Great Salt Lake, 1852, p. 313.

Geomys clarkii Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 332.

Cratogeomys castanops Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 220, fig. 51. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 315, figs. 57, XLVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 266. Zoöl. Ser.

CHESTNUT-FACED POCKET GOPHER.

1. Adult ♂ Coll. Paladura Cañon, Texas. T. Surber.

2-3. Adult ♀ Coll. Paladura Cañon, Texas. T. Surber.

Genus 149. **Pappogeomys. Ancient Pocket Gophers.**

Pappogeomys Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 145, pls. and figs. Type *Geomys bulleri* Thomas.

527. *Pappogeomys bulleri* (Thomas).

Geomys bulleri Thos., Ann. Mag. Nat. Hist., 6th Ser., 1892, p. 196.

Geomys nelsoni Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 164.

Pappogeomys bulleri Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 320, fig. 59. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 268. Zoöl. Ser.

BULLER'S POCKET GOPHER.

1. Adult ♀ P. Sierra de Fuanacathan, Mexico. E. Gerrard & Sons.

Genus 150. **Orthogeomys. Straight-headed Pocket Gophers.**

Orthogeomys Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 172, pls. & figs. Type *Geomys scalops* Thomas.

528. **Orthogeomys cuniculus** Elliot.

Orthogeomys cuniculus Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 234.

BURROWING POCKET GOPHER.

1. Adult ♂ Type. Coll. *Zanatepec, State of Oaxaca, Mexico. Heller & Barber.
2. Juv. ♀ Paratype. Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

Genus 151. **Heterogeomys. Distinct Pocket Gophers.**

Heterogeomys Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 179, pls. & figs. Type *Geomys hispidus* Le Conte.

529. **Heterogeomys torridus** Merriam.

Heterogeomys torridus Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 183, pls. & figs. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 326, fig. 61. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 270. Zool. Ser.

TROPICAL POCKET GOPHER.

- 1-2. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
3. Juv. ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 4-6. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
7. Juv. ♀ Pres. Buenavista, Yucatan. G. F. Gaumer.

*By a misreading of the collector's label, the word not having been plainly written, the type locality was originally given as *Yautepec*, when it should have been ZANATEPEC.

530. *Heterogeomys lanius* Elliot.

Heterogeomys lanius Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 235.

WOOLLY POCKET GOPHER.

1-2. Adult ♀ Type and paratype. Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

Genus 152. **Macrogeomys. Large Pocket Gophers.**

Macrogeomys Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 185. Type *Geomys heterodus* Peters.

531. *Macrogeomys cherrii* (Allen).

Geomys cherriei Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 337.

Macrogeomys cherrii Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 330, fig. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 271. Zoöl. Ser.

CHERRIE'S POCKET GOPHER.

1-2. Adult — P. Jimenez, Costa Rica. A. Alfaro.

Genus 153. **Thomomys. Pocket Gophers.**

Thomomys Max., Nov. Act. Phys. Med. Acad. Cæs. Leop.-Carol., XIX, 1839, p. 377. Type *Thomomys rufescens* Maximilian.

Diplostoma Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 206. (nec Rafinesque.)

Oryctomys Eyd. & Gerv., Mag. Zool., VI, 1836, p. 23. (Part.)

Megascapheus Elliot, Pub. Field Columb. Mus., III, 1903, p. 190. Zoöl. Ser.

Subgenus A. **Megascapheus.****532. *Thomomys bulbivorus* (Richardson).**

Diplostoma bulbivororum Rich., Faun. Bor. Amer., I, 1829, p. 206, pl. 18B.

Thomomys bulbivorus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 222. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 272. Zoöl. Ser.

GREAT POCKET GOPHER.

1-5. Adult ♀ Coll. McCoy, Oregon. F. Heller.

6. Adult ♂ Coll. Beaverton, Oregon. E. Heller.
 7-12. Adult ♀ Coll. Beaverton, Oregon. E. Heller.

Subgenus B. *Thomomys*.

533. *Thomomys leucodon* Merriam.

- Thomomys leucodon* Merr., Proc. Biol. Soc. Wash., XI, 1897, p.
 215. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.
 223. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.
 Indies, F. C. M. Pub., VI, 1905, p. 273. Zool. Ser.

WHITE-TOOTHED POCKET GOPHER.

- 1-4. Adult ♂ Topotypes. Coll. Grant's Pass, Oregon. E. Heller.
 5-6. Adult ♀ Topotypes. Coll. Grant's Pass, Oregon. E. Heller.

534. *Thomomys operarius* Merriam.

- Thomomys operarius* Merr., Proc. Biol. Soc. Wash., XI, 1897, p.
 215. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.
 223. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.
 Indies, F. C. M. Pub., VI, 1905, p. 273. Zool. Ser.

WORKING POCKET GOPHER.

- 1-8. Adult ♂ Topotypes. Coll. Keeler, Inyo County, California.
 E. Heller.
 9-14. Adult ♀ Topotypes. Coll. Keeler, Inyo County, California.
 E. Heller.

535. *Thomomys scapterus* Elliot.

- Thomomys scapterus* Elliot, Pub. Field Columb. Mus., III, 1903,
 p. 248. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &
 W. Indies, F. C. M. Pub., VI, 1905, p. 274. Zool. Ser.

DIGGER POCKET GOPHER.

1. Adult ♂ Type. Coll. Hannopee Cañon, Panamint Moun-
 tains, California. E. Heller.
 2-4. Adult ♀ Coll. Coal Kilns, Panamint Mountains, California.
 E. Heller.
 5. Juv. ♀ Paratype. Coll. Hannopee Cañon, Panamint Moun-
 tains, California. E. Heller.

536. *Thomomys bottæ* (Eydoux & Gervais).

- Oryctomys bottæ* Eyd. & Gerv., Mag. Zool., VI, 1836, p. 23. pl.
 XXI, fig. 4 (teeth).
Thomomys bottæ Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
 1901, p. 223, fig. 52. Zool. Ser. *Id.* Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 274.
 Zool. Ser.

BOTTA'S POCKET GOPHER.

- 1-4. Adult ♀ P. Portola, California. W. W. Price.
5. Adult ♂ P. Carmel River, California. W. W. Price.
6. Adult ♀ Exch. Alhambra, California. Am. Mus. Nat. Hist. N. Y. M. M. Green.
7. Adult ♂ P. Nicasio, California. C. K. Worthern.
8. Adult ♀ P. Nicasio, California. C. K. Worthern.
9. Adult ♂ Coll. Nicasio, California. E. Heller.
10. Adult ♂ P. Mendocino, California. F. Stephens.
11. Adult ♀ Coll. Mendocino, California. E. Heller.
12. Adult ♂ P. Coronado, California. F. Stephens.
13. Adult ♂ P. San Diego, California. F. Stephens.
14. Adult ♀ P. Bluff Lake, California. F. Stephens.
- 15-16. Adult ♂ P. Palo Alto, California. E. Heller.
17. Adult ♀ P. Palo Alto, California. E. Heller.
- 18-19. Adult ♀ Pres. Palo Alto, California. E. Heller.
20. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 21-23. Adult ♀ Coll. Point Reyes, California. E. Heller.
- 24-27. Adult ♂ Coll. Petaluma, California. E. Heller.
- 28-29. Adult ♀ Coll. Petaluma, California. E. Heller.
30. Adult ♂ P. Santa Cruz, California. A. Forrer.
31. Adult ♀ P. Santa Cruz, California. A. Forrer.

537. *Thomomys laticeps* Baird.

Thomomys laticeps Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 335. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 224. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 274. Zoöl. Ser.

BROAD-HEADED POCKET GOPHER.

- 1-6. Adult ♂ Topotypes. Coll. Table Bluff, Humboldt Bay, California. E. Heller.
- 7-16. Adult ♀ Topotypes. Coll. Table Bluff, Humboldt Bay, California. E. Heller.
- 17-18. Adult ♂ Coll. Requa, California. E. Heller.
- 19-22. Adult ♀ Coll. Requa, California. E. Heller.
- 23-25. Adult ♂ Coll. Crescent City, California. E. Heller.
- 26-31. Adult ♀ Coll. Crescent City, California. E. Heller.

538. *Thomomys monticola* Allen.

Thomomys monticolus! Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 48.

Thomomys monticola Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 225. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 275. Zoöl. Ser.

MOUNTAIN POCKET GOPHER.

1. Adult ♀ P. Pyramid Peak, California. W. W. Price.
2. Adult ♀ P. Bloods, California. W. W. Price.
3. Adult ♀ P. Big Trees, California. W. W. Price.
4. Juv. ♀ P. Big Trees, California. W. W. Price.
5. Juv. ♀ P. Hermit Valley, California. W. W. Price.
- 6-7. Adult ♂ P. Blue Lake, California. W. W. Price.
- 8-10. Adult ♂ P. Silver Lake, California. W. W. Price.
- 11-13. Adult ♀ P. Silver Lake, California. W. W. Price.
14. Adult ♂ P. Mt. Siegel, Nevada. W. W. Price.
15. Juv. ♀ P. Mt. Siegel, Nevada. W. W. Price.

a. *Thomomys douglasi fuscus* (Merriam).

Thomomys clusius fuscus Merr., N. Am. Faun., No. 5, 1891, p. 70.

Thomomys douglasi fuscus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 226. Zoöl. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 277. Zoöl. Ser.

SWARTHY POCKET GOPHER.

- 1-4. Adult ♀ P. Nederland, Colorado. R. T. Young.
5. Adult ♂ P. Okanagan, British Columbia, Canada. C. K. Worthern.
- 6-7. Adult ♀ P. Okanagan, British Columbia, Canada. C. K. Worthern.

539. *Thomomys helleri* Elliot.

Thomomys helleri Elliot, Pub. Field Columb. Mus., III, 1903, p.

165. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., VI, 1905, p. 278. Zoöl. Ser.

HELLER'S GOPHER.

- 1-3. Adult ♂ Paratypes. Coll. Goldbeach, Oregon. E. Heller.
- 4-10. Adult ♀ Type and paratypes. Coll. Goldbeach, Oregon. E. Heller.

540. *Thomomys talpoides* (Richardson).

Cricetus talpoides Rich., Zoöl. Jour., III, 1828, p. 518.

Geomys borealis Rich., Rep. Brit. Ass. for 1836, VI, 1837, p. 156.

Thomomys talpoides Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

11, 1901, p. 227. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 278. Zoöl. Ser.

RICHARDSON'S POCKET GOPHER.

- 1-3. Adult ♂ P. Canon Ball River, North Dakota. G. K. Cherrie.
- 4-5. Adult ♀ P. Canon Ball River, North Dakota. G. K. Cherrie.

- 6-7. Adult ♀ P. Dickinson, North Dakota. G. K. Cherrie.
 8. Adult ♀ Coll. Braddock, North Dakota. W. E. Snyder.
 9. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
 10. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
 11-12. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
 13. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
 14-16. Adult ♂ Coll. Minnewaukon, North Dakota. W. E. Snyder.
 17-24. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
 25-26. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.

541. *Thomomys melanops* Merriam.

- Thomomys melanops* Merr., Proc. Biol. Soc. Wash., XIII, 1899, p.
 21. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.
 227. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.
 Indies, F. C. M. Pub., VI, 1905, p. 279. Zoöl. Ser.

BLACK-FACED POCKET GOPHER.

- 1-2. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County,
 Washington. D. G. Elliot.
 3-4. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County,
 Washington. D. G. Elliot.
 5-7. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County,
 Washington. D. G. Elliot.
 8. Juv. — Coll. Boulder Lake, Olympic Mts., Clallam County,
 Washington. D. G. Elliot.

542. *Thomomys fulvus* (Woodhouse).

- Geomys fulvus* Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p. 201.
Ascomys umbrinus Aud. & Bachm., Quad. N. Am., III, 1854, p.
 307. (nec Richardson.)
Thomomys umbrinus Baird, N. Am. Mamm., 1857, p. 399. (Part.)
Thomomys fulvus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
 1901, p. 227. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W.
 Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 334, fig. XLVII. Zoöl.
 Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.
 M. Pub., VI, 1905, p. 280. Zoöl. Ser.

FULVOUS POCKET GOPHER.

- 1-5. Adult ♂ P. Fairbank, Arizona. W. W. Price.
 6-12. Adult ♀ P. Fairbank, Arizona. W. W. Price.
 13. Adult ♀ P. Huaravas Mts., State of Sonora, Mexico.
 W. W. Price.

14. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
 15-16. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
 17-18. Adult ♀ P. Graham Mts., Arizona. W. W. Price.
 19-23. Adult ♀ P. White Mts., Arizona. W. W. Price.
 24. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
 25-40. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
 41-45. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.
 46-53. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.
 54-58. Adult ♂ P. Los Angeles, California. J. Rowley.
 59-63. Adult ♀ P. Los Angeles, California. J. Rowley.
 64-66. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
 67-69. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
 70. Juv. ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
 71-72. Adult ♀ Coll. Bailey's Ranch, California. E. Heller.
 73-74. Adult ♂ Coll. Fort Tejon, California. E. Heller.

a. Thomomys fulvus nigricans Rhoads.

Thomomys fulvus nigricans Rhoads, Proc. Acad. Nat. Scien. Phil., 1895, p. 36. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 228. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 335. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 280. Zoöl. Ser.

BLACKISH POCKET GOPHER.

1. Adult ♂ Topotype. P. Witch Creek, San Diego County, California. F. Stephens.
 2-3. Adult ♀ Topotypes. P. Witch Creek, San Diego County, California. F. Stephens.

543. **Thomomys umbrinus* (Richardson).

Geomys umbrinus Rich., Faun. Bor. Amer., Mamm., 1, 1829, p. 202.

RICHARDSON'S SOUTHERN POCKET GOPHER.

- 1-7. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

544. *Thomomys martirensis* (Allen).

Thomomys fulvus martirensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 147.

Thomomys martirensis Elliot, Mamm. Middle Amer. & W. Indies,

*See Bailey, Proc. Biol. Soc. Wash., XIX, 1906, p. 3.

F. C. M. Pub., IV, Pt. I, 1904, p. 336. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 282. Zoöl. Ser.

SAN PEDRO MARTIR POCKET GOPHER.

- 1-5. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 6-8. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
9. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 10-11. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
12. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 13-16. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
17. Adult ♂ Coll. Aguaje de las Frاسas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
18. Adult ♀ Coll. Aguaje de las Frاسas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 19-20. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 21-22. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
23. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
24. Adult ♂ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 25-27. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 28-29. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

545. *Thomomys aphrastus* Elliot.

Thomomys aphrastus Elliot, Pub. Field Columb. Mus., III, 1903, p. 219. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 336. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 282. Zoöl. Ser.

TROUBLESOME POCKET GOPHER.

- 1-2. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.

3. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
4. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.
5. Adult ♂ Type. Coll. San Tomas, Lower California, Mexico. E. Heller.
6. Adult ♀ Paratype. Coll. San Tomas, Lower California, Mexico. E. Heller.
- 7-8. Adult ♀ Coll. San Antonio, Lower California, Mexico. E. Heller.
- 9-10. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 11-15. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

546. *Thomomys peregrinus* Merriam.

Thomomys peregrinus Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 146. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 337. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 282. Zoöl. Ser.

WANDERING POCKET GOPHER.

- 1-3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

547. *Thomomys alpinus* Merriam.

Thomomys alpinus Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 216. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 229. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 283. Zoöl. Ser.

ALPINE POCKET GOPHER.

1. Adult ♂ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.
- 2-3. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.
- 4-5. Adult ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
6. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
7. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 8-12. Adult ♂ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

- 13-17. Adult ♀ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

548. *Thomomys aureus* Allen.

Thomomys aureus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 49. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 229. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 285. Zoöl. Ser.

GOLDEN POCKET GOPHER.

1. Adult ♀ Topotype. Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

a. Thomomys aureus perpes Merriam.

Thomomys aureus perpes Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 111. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 285. Zoöl. Ser.

LONE PINE POCKET GOPHER.

1. Adult ♂ Coll. Inyo Mts., California. E. Heller.
2. Adult ♀ Coll. Coso Mts., California. E. Heller.
3-6. Adult ♂ Topotypes. Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.
7-17. Adult ♀ Topotypes. Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.

549. *Thomomys perpallidus* (Merriam).

Thomomys talpoides perpallidus Merr., Science, VIII, 1886, p. 588.
Thomomys perpallidus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 229. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 340. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 286. Zoöl. Ser.

PALE POCKET GOPHER.

- 1-6. Adult ♂ Coll. Palm Springs, California. E. Heller.
7-11. Adult ♀ Coll. Palm Springs, California. E. Heller.
12. Adult ♂ Coll. Whitewater, California. E. Heller.
13. Adult ♀ Coll. Warren's Well, California. E. Heller.
14-15. Adult ♂ Coll. Daggett, California. E. Heller.
16. Adult ♀ Coll. Morongo Pass, California. E. Heller.
17. Adult ♀ Coll. Copper City, California. E. Heller.
18-20. Adult ♂ Coll. Oro Grande, California. E. Heller.
21-23. Adult ♀ Coll. Oro Grande, California. E. Heller.
24. Adult ♂ P. Carrizo Creek, California. F. Stephens.
25-26. Adult ♀ P. Carrizo Creek, California. F. Stephens.
27-29. Adult ♀ P. Salt Creek, California. F. Stephens.

30. Adult ♀ Exch., Borego Springs, California. Am. Mus. Nat. Hist. N. Y.

550. *Thomomys cabezonæ* Merriam.

Thomomys cabezonæ Merr., Proc. Biol. Soc. Wash., xiv, 1901, p. 110. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 286. Zool. Ser.

CABEZON POCKET GOPHER.

1. Adult ♂ Coll. Whitewater, California. E. Heller.
- 2-7. Adult ♀ Coll. Whitewater, California. E. Heller.
8. Adult ♂ Coll. Banning, California. E. Heller.
9. Adult ♀ Coll. Banning, California. E. Heller.
10. Juv. ♂ Coll. Banning, California. E. Heller.

Family IX. *Heteromyidae*. Kangaroo Rats, Pocket Mice.

Subfamily I. *Dipodomyinæ*.

Genus 154. *Dipodomys*. Four-toed Kangaroo Rats.

***Dipodomys* Gray**, Ann. Mag. Nat. Hist., 1st Ser., vii, 1841, p. 521.
Type *Dipodomys phillipsi* Gray.

Macrocolus Wagn., Schreb. Säugth., Suppl., iv, 1844, pl. ccxxxix, (teeth).

551. *Dipodomys merriami* Mearns.

Dipodomys merriami Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 290. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 232, fig. 53. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 345, fig. XLVIII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 288. Zool. Ser.

MERRIAM'S KANGAROO RAT.

- 1-23. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 24-44. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 45-57. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 58-62. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 63-68. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
- 69-72. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
73. Juv. — P. Fort Lowell, Arizona. W. W. Price.
74. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.



FIG. XXXVI. *DIPODOMYS MERRIAMI*.
MERRIAM'S KANGAROO RAT.

- 75-77. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
78-83. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
84-94. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

a. Dipodomys merriami nitratus Merriam.

Dipodomys merriami nitratus Merr., Proc. Biol. Soc. Wash., ix, 1894, p. 112. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 233. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 288. Zoöl. Ser.

KEELER KANGAROO RAT.

- 1-4. Adult ♂ Topotypes. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.
5-6. Adult ♀ Topotypes. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.
7-12. Adult ♂ Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.
13-16. Adult ♀ Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.

b. Dipodomys merriami ambiguus (Merriam).

Dipodomys ambiguus Merr., N. Am. Faun., No. 4, 1890, p. 42.
Dipodomys merriami ambiguus Elliot Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 289. Zoöl. Ser.

DOUBTFUL KANGAROO RAT.

- 1-6. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

- 7-16. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

c. *Dipodomys merriami parvus* (Rhoads).

Dipodomys parvus Rhoads, Amer. Nat., xxviii, 1894, p. 70.

Dipodomys merriami parvus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 346. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 289. Zool. Ser.

SMALL KANGAROO RAT.

1. Adult ♀ P. Elsinore, Riverside County, California. J. Rowley.
2. Adult ♀ P. Aguanga, Riverside County, California. F. Stephens.

d. *Dipodomys merriami simiolus* (Rhoads).

Dipodomys simiolus Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 410.

Dipodomys similis Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 411.

Dipodomys merriami simiolus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 347. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 289. Zool. Ser.

Dipodomys merriami similis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zool. Ser.

ALLIED KANGAROO RAT.

- 1-12. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 13-20. Adult ♀ Coll. Palm Springs, California. E. Heller.
- 21-26. Adult ♂ Coll. Whitewater, California. E. Heller.
- 27-32. Adult ♀ Coll. Whitewater, California. E. Heller.
- 33-35. Adult ♂ Coll. Burn's Cañon, California. E. Heller.
36. Adult ♀ Coll. Burn's Cañon, California. E. Heller.
- 37-41. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 42-43. Adult ♀ Coll. Morongo Pass, California. E. Heller.
- 44-45. Adult ♂ Coll. Oro Grande, California. E. Heller.
46. Adult ♂ Coll. Old Woman's Spring, California. E. Heller.
- 47-48. Adult ♀ Coll. Old Woman's Spring, California. E. Heller.
49. Adult ♂ Coll. Warren's Well, California. E. Heller.
- 50-51. Adult ♂ Coll. Daggett, California. E. Heller.
- 52-55. Adult ♀ Coll. Daggett, California. E. Heller.
56. Adult ♂ P. Borego Springs, California. F. Stephens.

57. Adult ♀ P. Borego Springs, California. F. Stephens.
 58. Adult ♂ P. Carriso Creek, California. F. Stephens.
 59-60. Adult ♀ P. Carriso Creek, California. F. Stephens.

e. Dipodomys merriami mortivallis Elliot.

Dipodomys merriami mortivallis Elliot, Pub. Field Columb. Mus.,
 III, 1903, p. 250. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 290. Zoöl. Ser.

DEATH VALLEY KANGAROO RAT.

1. Adult ♂ Coll. Ballarat, Inyo County, California. E. Heller.
 2. Adult ♀ Coll. Mesquite Valley, Inyo County, California.
 E. Heller.
 3-6. Adult ♂ Type and paratypes. Coll. Furnace Creek, Death
 Valley, California. E. Heller.
 7. Adult ♀ Paratype. Coll. Furnace Creek, Death Valley,
 California. E. Heller.

f. Dipodomys merriami arenivagus Elliot.

Dipodomys merriami arenivagus Elliot, Pub. Field Columb. Mus.,
 III, 1903, p. 249. Zoöl. Ser. *Id.* Mamm. Middle Amer. &
 W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 347. Zoöl. Ser.
Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., VI, 1905, p. 290. Zoöl. Ser.

SAN FELIPE KANGAROO RAT.

- 1-4. Adult ♂ Type and paratypes. Coll. San Felipe, Lower Cali-
 fornia, Mexico. E. Heller.
 5-9. Adult ♀ Paratypes. Coll. San Felipe, Lower California,
 Mexico. E. Heller.
 10. Adult ♂ Coll. Cañon Esperanza, Lower California, Mex-
 ico. E. Heller.

552. *Dipodomys californicus* Merriam.

Dipodomys californicus Merr., N. Am. Faun., No. 4, 1890, p. 49.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 236.
 Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. In-
 dies, F. C. M. Pub., VI, 1905, p. 291. Zoöl. Ser.

CALIFORNIA KANGAROO RAT.

- 1-4. Adult ♂ P. Nicasio, California. C. A. Allen.
 5-8. Adult ♀ P. Nicasio, California. C. A. Allen.
 9-10. Adult ♂ P. San Luis Rey, San Diego County, Califor-
 nia. A. Forrer.
 11. Adult ♀ P. San Luis Rey, San Diego County, Califor-
 nia. A. Forrer.

553. *Dipodomys deserti* Stephens.

- Dipodomys deserti* Stephens, Amer. Nat., **xxi**, 1887, p. 42.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., **ii**, 1901, p. 235.
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., **iv**, Pt. 1, 1904, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., **vi**, 1905, p. 292. Zoöl. Ser.

DESERT KANGAROO RAT.

- 1-4. Adult ♂ Exch. Borego Springs, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
 5. Adult ♀ Exch. San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
 6-8. Adult ♂ Coll. Palm Springs, California. E. Heller.
 9. Adult ♀ Coll. Palm Springs, California. E. Heller.
 10-21. Adult ♂ Coll. Daggett, California. E. Heller.
 22-36. Adult ♀ Coll. Daggett, California. E. Heller.
 37-41. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
 42-47. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.
 48-49. Adult ♂ Coll. Ballarat, Inyo County, California. E. Heller.
 50. Adult ♀ Coll. Ballarat, Inyo County, California. E. Heller.
 51-55. Adult ♂ Coll. Furnace Creek, Death Valley, California. E. Heller.
 56-57. Adult ♀ Coll. Furnace Creek, Death Valley, California. E. Heller.

a. *Dipodomys deserti helleri* Elliot.

- Dipodomys deserti helleri* Elliot, Pub. Field Columb. Mus., **iii**, 1903, p. 249. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., **vi**, 1905, p. 292. Zoöl. Ser.

HELLER'S KANGAROO RAT.

- 1-5. Adult ♂ Type and paratypes. Coll. Keeler, Inyo County, California. E. Heller.
 6. Adult ♀ Paratype. Coll. Keeler, Inyo County, California. E. Heller.

554. *Dipodomys spectabilis* Merriam.

- Dipodomys spectabilis* Merr., N. Am. Faun., No. 4, 1890, p. 46.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., **ii**, 1901, p. 235.
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.

Pub., IV, Pt. I, 1904, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 293. Zoöl. Ser.

NOTABLE KANGAROO RAT.

- 1-2. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 3. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 4-8. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 9-13. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 14-22. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 23-27. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 28-29. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

Genus 155. **Perodipus. Five-toed Kangaroo Rats.**

Perodipus Fitzin., Sitz. Math.-Natur. Classe K. Akad. Wiss. Wien, LVI, 1867, p. 126. Type *Dipodomys agilis* Gambel.
Dipodops Merr., N. Am. Faun., No. 3, 1890, p. 72.

555. Perodipus agilis (Gambel).

Dipodomys agilis Gambel, Proc. Acad. Nat. Scien. Phil., 1848, p. 77.

Dipodomys hermanni Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 224.

?*Dipodomys wagneri* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 224.

Perodipus agilis Eliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 236, fig. 54. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 351. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 293. Zoöl. Ser.

NIMBLE KANGAROO RAT.

- 1-4. Adult ♂ P. Riverside, California. E. Heller.
- 5-9. Adult ♀ P. Riverside, California. E. Heller.
- 10-11. Adult ♂ P. Jamul, California. E. Heller.
- 12-13. Adult ♂ Exch. San Luis Rey, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 14. Adult ♂ Exch. Jacumba, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.

15. Adult ♂ Exch. Santa Isabella, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
16. Adult ♀ Exch. San Pasqual Valley, California. Am. Mus. Nat. Hist. N. Y. C. H. Marsh.
17. Adult ♀ P. Dulzura, California. J. Rowley.
18. Adult ♂ Coll. Elsinore, California. E. Heller.
19. Adult ♀ Coll. Sorrento, California. E. Heller.
20. Adult ♂ Coll. Banning, California. E. Heller.
- 21-24. Adult ♂ Coll. Castac Lake, Fort Tejon, California. E. Heller.
- 25-28. Adult ♀ Coll. Castac Lake, Fort Tejon, California. E. Heller.
29. Adult ♂ Coll. Piru Creek, Fort Tejon, California. E. Heller.
30. Adult ♀ Coll. Piru Creek, Fort Tejon, California. E. Heller.
31. Adult ♂ Coll. Lockwood Valley, Mt. Pinos, California. E. Heller.
- 32-34. Adult ♀ Coll. Lockwood Valley, Mt. Pinos, California. E. Heller.
- 35-42. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 43-52. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
53. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
54. Adult ♀ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
55. Adult ♂ Coll. Las Eucinas, Lower California, Mexico. E. Heller.
- 56-59. Adult ♂ Coll. San Tomas, Lower California, Mexico. E. Heller.
60. Adult ♀ Coll. San Tomas, Lower California, Mexico. E. Heller.
- 61-63. Adult ♂ Coll. Rosarito, Lower California, Mexico. E. Heller.
- 64-66. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.
67. Adult ♂ Coll. Agua Escondido, Lower California, Mexico. E. Heller.
- 68-71. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.

- 72-73. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
74. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
75. Adult ♀ Coll. El Alamo, Lower California, Mexico. E. Heller.
76. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
77. Adult ♂ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.
- 78-79. Adult ♀ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.
- 80-82. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 83-87. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 88-89. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
90. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.

556. *Perodipus streator* Merriam.

Perodipus streator Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 113. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 237. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 294. Zoöl. Ser.

STREATOR'S KANGAROO RAT.

- 1-4. Adult ♂ Coll. Fort Tejon, California. E. Heller.
5. Adult ♀ Coll. Fort Tejon, California. E. Heller.
- 6-8. Adult ♂ Coll. Neenach, Los Angeles County, California. E. Heller.
- 9-10. Adult ♀ Coll. Neenach, Los Angeles County, California. E. Heller.

557. *Perodipus panamintinus* Merriam.

Perodipus panamintinus Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 114. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 239. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 295. Zoöl. Ser.

PANAMINT KANGAROO RAT.

- 1-11. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
- 12-18. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.

558. *Perodipus richardsoni* (Allen).

Dipodops richardsoni Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 277.

Perodipus richardsoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 238. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 297. Zoöl. Ser.

RICHARDSON'S KANGAROO RAT.

1-2. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

3. Adult ♂ Paratype. Exch. Beaver River, Indian Territory. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

4-5. Adult ♂ Coll. Coolidge, Kansas. T. Surber.

6-20. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.

21-35. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

559. *Perodipus chapmani* (Mearns).

Dipodomys chapmani Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 291.

Perodipus chapmani Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 237. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 350, fig. 66. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 297. Zoöl. Ser.

CHAPMAN'S KANGAROO RAT.

1-5. Adult ♂ P. Fairbank, Arizona. Price & Condit.

6. Adult ♀ P. Fairbank, Arizona. Price & Condit.

560. *Perodipus longipes* (Merriam).

Dipodops longipes Merr., N. Am. Faun., No. 3, 1890, p. 72.

Perodipus longipes Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 239. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 298. Zoöl. Ser.

LONG-FOOTED KANGAROO RAT.

1. Adult ♂ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

2-3. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

4-5. Adult ♂ Exch. Uncompaghre Indian Reservation, Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

Subfamily II. **Heteromyiinae.**Genus 156. **Perognathus. Pocket Mice.**

Perognathus Max., Reise Innere N. Amer., 1, 1839, pp. 449-450.

Type *Perognathus fasciatus* Maximilian.

Cricetodipus Peale, Mamm. & Ornith. U. S. Expl. Exped., 1848, p. 53, pl. 13, fig. 2.

Abromys (sic) Gray, Proc. Zool. Soc., 1868, p. 202.

Otognosis Coues, Proc. Acad. Nat. Scien. Phil., 1875, p. 305.

Chætodipus Merr., N. Am. Faun., No. 1, 1889, p. 5, pl. III, fig. 15.

Subgenus A. *Peragnathus*.**561. Perognathus fasciatus Maximilian.**

Perognathus fasciatus Max., Nov. Act. Acad. Cæs. Leop.-Carol., XIX, Pt. 1, 1839, p. 369, pl. xxxiv. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 242. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 300. Zool. Ser.

MAXIMILIAN'S POCKET MOUSE.

1. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Adult ♀ Exch. Pine Ridge, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

562. Perognathus merriami Allen.

Cricetodipus flavus Thomas, Proc. Zool. Soc., 1888, p. 449. (nec Baird.)

Perognathus merriami Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1892, p. 45, pl. III, figs. 1-6. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 243. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 353, figs. 67, XLIX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 301. Zool. Ser.

Perognathus mearnsi Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 237.

MERRIAM'S POCKET MOUSE.

1. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
2. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

- 3-4. Adult ♀ Topotypes. Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.

563. *Perognathus flavus* Baird.

Perognathus flavus Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 332. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 244, fig. 56. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 354. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 302. Zoöl. Ser.

BAIRD'S POCKET MOUSE.

- 1-2. Adult ♀ P. Fairbank, Arizona. W. W. Price.
3. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
4. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
5. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.

a. Perognathus flavus bimaculatus (Merriam).

Perognathus bimaculatus Merr., N. Am. Faun., No. I, 1889, p. 12.
Perognathus apache Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 71. (Part.)
Perognathus flavus bimaculatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 244. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 302. Zoöl. Ser.

YAVAPAI POCKET MOUSE.

- 1-3. Adult ♀ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
4-7. Adult ♂ P. Holbrook, Arizona. W. W. Price.
8. Adult ♀ P. Holbrook, Arizona. W. W. Price.

564. *Perognathus apache* Merriam.

Perognathus apache Merr., N. Am. Faun., No. I, 1889, p. 14. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 244. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 303. Zoöl. Ser.

APACHE POCKET MOUSE.

1. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.

565. *Perognathus pericalles* Elliot.

Perognathus pericalles Elliot, Pub. Field Columb. Mus., III, 1903, p. 252. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 303. Zoöl. Ser.

BEAUTIFUL POCKET MOUSE.

1. Adult ♂ Type. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.
2. Adult ♀ Paratype. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.

566. *Perognathus elibatus* Elliot.

Perognathus elibatus Elliot, Pub. Field Columb. Mus., III, 1903, p. 252. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 304. Zoöl. Ser.

MOUNT PINOS POCKET MOUSE.

- 1-7. Adult ♂ Type and paratypes. Coll. Mount Pinos, Ventura County, California. E. Heller.
- 8-9. Adult ♀ Paratypes. Coll. Mount Pinos, Ventura County, California. E. Heller.

567. *Perognathus panamintinus* (Merriam).

Perognathus longimembris panamintinus Merr., Proc. Acad. Nat. Scien. Phil., 1894, p. 265.

Perognathus panamintinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 245. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 304. Zoöl. Ser.

PANAMINT MOUNTAINS POCKET MOUSE.

- 1-7. Adult ♂ Coll. Wild Rose Springs, Panamint Mountains, California. E. Heller.
- 8-10. Adult ♀ Coll. Wild Rose Springs, Panamint Mountains, California. E. Heller.

a. *Perognathus panamintinus bangsi* (Mearns).

Perognathus longimembris bangsi Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 300.

Perognathus panamintinus bangsi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 245. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 305. Zoöl. Ser.

BANGS'S POCKET MOUSE.

1. Adult ♀ Coll. Piru Creek, California. E. Heller.
2. Adult ♀ Coll. Fort Tejon, California. E. Heller.
- 3-12. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 13-16. Adult ♂ Coll. Daggett, California. E. Heller.
17. Adult ♀ Coll. Daggett, California. E. Heller.
- 18-25. Adult ♂ Coll. Lane's Mills, California. E. Heller.
- 26-37. Adult ♂ Coll. Copper City, California. E. Heller.

38. Adult ♀ Coll. Copper City, California. E. Heller.
 39-43. Adult ♂ Coll. Ballarat, California. E. Heller.

b. Perognathus panamintinus brevinasus Osgood.

Perognathus panamintinus brevinasus Osgood, N. Am. Faun., No. 18, 1900, p. 30. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 246. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 355. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 305. Zoöl. Ser.

SHORT-NOSED POCKET MOUSE.

1. Adult ♀ Exch. Jacumba, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.

568. *Perognathus longimembris* (Coues).

Otognosis longimembris Coues, Proc. Acad. Nat. Scien. Phil., 1875, p. 305.

Cricetodipus parvus True, Proc. U. S. Nat. Mus., 1882, p. 474.

Perognathus inornatus Merr., N. Am. Faun., No. 1, 1889, p. 15.

Perognathus longimembris Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 247. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 306. Zoöl. Ser.

SAN JOAQUIN POCKET MOUSE.

- 1-8. Adult ♂ Topotypes. Coll. Fort Tejon, California. E. Heller.
 9-16. Adult ♀ Topotypes. Coll. Fort Tejon, California. E. Heller.

a. Perognathus monticola olivaceus (Merriam).

Perognathus olivaceus Merr., N. Am. Faun., No. 1, 1889, p. 15.

Perognathus olivaceus amœnus Merr., N. Am. Faun., No. 1, 1889, p. 16.

Perognathus monticola olivaceus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 249. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 307. Zoöl. Ser.

GREAT BASIN POCKET MOUSE.

1. Adult ♀ P. Mt. Siegel, Nevada. W. W. Price.
 2-5. Adult ♂ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.
 6-7. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.

569. *Perognathus lordi* (Gray).

Abromys (sic) *lordi* Gray, Proc. Zool. Soc., 1868, p. 202.

Perognathus lordi Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 250. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 308. Zool. Ser.

NORTHWEST POCKET MOUSE.

1. Adult ♂ P. Okanagan, British Columbia, Canada. C. K. Worthen.
2. Adult ♀ P. Okanagan, British Columbia, Canada. C. K. Worthen.

570. *Perognathus formosus* Merriam.

Perognathus formosus Merr., N. Am. Faun., No. 1, 1889, p. 17.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 250.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.
 Indies, F. C. M. Pub., VI, 1905, p. 308. Zool. Ser.

LONG-TAILED POCKET MOUSE.

- 1-2. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 3-5. Adult ♂ Coll. Victor, California. E. Heller.
- 6-11. Adult ♂ Coll. Old Woman's Spring, California. E. Heller.
12. Adult ♀ Coll. Old Woman's Spring, California. E. Heller.
- 13-19. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 20-22. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 23-30. Adult ♂ Coll. Daggett, California. E. Heller.
- 31-32. Adult ♀ Coll. Daggett, California. E. Heller.
- 33-38. Adult ♂ Coll. Lone Willow Springs, California. E. Heller.
- 39-40. Adult ♀ Coll. Lone Willow Springs, California. E. Heller.
41. Adult ♂ Coll. Copper City, California. E. Heller.
42. Adult ♂ Coll. Ballarat, California. E. Heller.
- 43-46. Adult ♂ Coll. Wild Rose Springs, California. E. Heller.
- 47-52. Adult ♀ Coll. Wild Rose Springs, California. E. Heller.
- 53-54. Adult ♂ Coll. Hannopee Cañon, California. E. Heller.
55. Adult ♀ Coll. Hannopee Cañon, California. E. Heller.
- 56-64. Adult ♂ Coll. Furnace Creek, Death Valley, California.
 E. Heller.
- 65-68. Adult ♀ Coll. Furnace Creek, Death Valley, California.
 E. Heller.

571. *Perognathus mesembrinus* Elliot.

Perognathus mesembrinus Elliot, Pub. Field Columb. Mus., III,
 1903, p. 251. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 308. Zool.
 Ser.

SOUTHERN POCKET MOUSE.

- 1-12. Adult ♂ Type and paratypes. Coll. Palm Springs, California. E. Heller.
 13. Adult ♀ Paratype. Coll. Palm Springs, California. E. Heller.

Subgenus B. *Chaetodipus*.*a. Perognathus baileyi rhydinorhis* Elliot.

- Perognathus baileyi rhydinorhis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 167. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 362. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 309. Zoöl. Ser.

SAN QUENTIN POCKET MOUSE.

- 1-2. Adult ♂ Coll. Juncolito Springs, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
 3. Adult ♀ Coll. Juncolito Springs, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
 4. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
 5-12. Adult ♂ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.
 13-14. Adult ♀ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

572. *Perognathus cneus* Elliot.

- Perognathus cneus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 169. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 362. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 309. Zoöl. Ser.

BUFF-COLORED POCKET MOUSE.

1. Adult ♂ Type. Coll. Rosarito, Lower California, Mexico. E. Heller.

573. *Perognathus hispidus* Baird.

- Perognathus fasciatus* Baird, N. Amer. Mamm., 1857, p. 420. (nec Max.)
Perognathus hispidus Baird, N. Amer. Mamm., 1857, p. 421. Elliot; Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 251. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 360. Zoöl. Ser. *Id.* Check-L. Mamm.

N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 309.
Zoöl. Ser.

Perognathus paradoxus spilotus Merr., N. Am. Faun., No. 1, 1889,
p. 25.

HISPID POCKET MOUSE.

1. Adult ♂ Exch. Brownsville, Texas. Am. Mus. Nat. Hist.
N. Y. F. B. Armstrong.

2-3. Adult ♂ P. Brownsville, Texas. C. K. Worthern.

4-5. Adult ♀ P. Brownsville, Texas. C. K. Worthern.

a. *Perognathus hispidus paradoxus* (Merriam).

Perognathus paradoxus Merr., N. Am. Faun., No. 1, 1889, p. 24.

Perognathus latirostris Rhoads, Amer. Nat., xxviii, 1894, p. 185.

Perognathus conditi Allen, Bull. Am. Mus. Nat. Hist. N. Y.,
1894, p. 318.

Perognathus hispidus paradoxus Elliot, Syn. N. Am. Mamm., F.
C. M. Pub., II, 1901, p. 252. Zoöl. Ser. *Id.* Mamm. Middle
Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 361. Zoöl.
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F.
C. M. Pub., VI, 1905, p. 310. Zoöl. Ser.

KANSAS POCKET MOUSE.

1-3. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist.
N. Y. H. P. Attwater.

4-6. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist.
N. Y. H. P. Attwater.

7. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist.
N. Y. H. P. Attwater.

8. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist.
N. Y. H. P. Attwater.

9. Adult ♂ Exch. Pine Ridge, South Dakota. Am. Mus. Nat.
Hist. N. Y. W. W. Granger.

b. *Perognathus hispidus maximus* Elliot.

Perognathus hispidus maximus Elliot, Pub. Field Columb. Mus.,
III, 1903, p. 253. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 310. Zoöl.
Ser.

GREAT POCKET MOUSE.

1-3. Adult ♂ Type and paratypes. Coll. Noble, Oklahoma
Territory. T. Surber.

4-5. Adult ♀ Paratypes. Coll. Noble, Oklahoma Territory.
T. Surber.

6. Juv. ♂ Paratype. Coll. Noble, Oklahoma Territory.
T. Surber.

- 7-12. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 13-16. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 17. Adult ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 18. Adult ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 19. Juv. ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 20. Adult ♂ Coll. Arnettville, Oklahoma Territory. T. Surber.
- 21. Adult ♀ Coll. Arnettville, Oklahoma Territory. T. Surber.

574. *Perognathus penicillatus* Woodhouse.

Perognathus penicillatus Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p. 200. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 252. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 311. Zoöl. Ser.

DESERT POCKET MOUSE.

- 1. Adult ♂ Exch. Walters, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 2. Adult ♂ Exch. Gardner's Lagoon, Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 3. Adult ♀ Exch. Salt Creek, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 4. Adult ♀ Exch. Carriso Creek, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 5-8. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 9-12. Adult ♂ Coll. Whitewater, California. E. Heller.
- 13-14. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 15-16. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 17-18. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 19. Adult ♂ Coll. Daggett, California. E. Heller.

a. Perognathus penicillatus angustirostris Osgood.

Perognathus penicillatus angustirostris Osgood, N. Am. Faun., No. 18, 1900, p. 47. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 252. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 358. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 311. Zoöl. Ser.

SLENDER-NOSED POCKET MOUSE.

- 1. Adult ♂ P. Palmetto Springs, California. F. Stephens.

- 2-3. Adult ♀ P. Vallecitos, California. F. Stephens.
- 4. Adult — P. Vallecitos, California. F. Stephens.
- 5. Adult ♂ P. New River, California. F. Stephens.
- 6. Adult ♀ P. New River, California. F. Stephens.
- 7. Adult ♂ Coll. Buena Vista Camp, Lower California, Mexico. E. Heller.
- 8-16. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
- 17-18. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.

b. *Perognathus penicillatus pricei* (Allen).

Perognathus pricei Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 318.

Perognathus obscurus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 216. (nec Merr.)

Perognathus penicillatus pricei Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 253. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 358. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 311. Zoöl. Ser.

PRICE'S POCKET MOUSE.

- 1-20. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 21-25. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 26-38. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
- 39-46. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
- 47-65. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 66-67. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 68-69. Adult ♂ P. Wilcox, Arizona. W. W. Price.
- 70-72. Adult ♀ P. Wilcox, Arizona. W. W. Price.
- 73-78. Adult ♂ Topotypes. P. Oposura, State of Sonora, Mexico. B. C. Condit.
- 79-80. Adult ♀ Topotypes. P. Oposura, State of Sonora, Mexico. B. C. Condit.
- 81-83. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. B. C. Condit.
- 84-85. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. B. C. Condit.
- 86-96. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 97-104. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

c. *Perognathus penicillatus arenarius* (Merriam).

Perognathus arenarius Merr., Proc. Cal. Acad. Scien., 2d Ser., IV, 1894, p. 461.

Perognathus penicillatus arenarius Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 358. Zoöl. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 312. Zoöl. Ser.

LITTLE DESERT POCKET MOUSE.

1-14. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.

15-21. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.

575. *Perognathus helleri* Elliot.

Perognathus helleri Elliot, Pub. Field Columb. Mus., III, 1903, p.

166. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 360. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 312. Zoöl. Ser.

HELLER'S POCKET MOUSE.

1-11. Adult ♂ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

12-19. Adult ♀ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

576. *Perognathus stephensi* Merriam.

Perognathus stephensi Merr., Proc. Acad. Nat. Scien. Phil., 1894,

p. 267. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 253. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 312. Zoöl. Ser.

STEPHENS'S POCKET MOUSE.

1. Adult ♂ Topotype. Coll. Mesquite Valley, Death Valley, California. E. Heller.

2-3. Adult ♀ Topotypes. Coll. Mesquite Valley, Death Valley, California. E. Heller.

577. *Perognathus fallax* Merriam.

Perognathus fallax Merr., N. Am. Faun., No. 1, 1889, p. 19.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 254. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 366. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 314. Zoöl. Ser.

SHORT-EARED CALIFORNIA POCKET MOUSE.

1. Adult ♂ P. Elsinore, California. J. Rowley.

2. Adult ♂ P. San Diego, California. F. Stephens.
3. Adult ♀ P. Ocean Beach, San Diego, California. F. Stephens.
- 4-14. Adult ♂ Coll. San Antonio, Lower California, Mexico. E. Heller.
- 15-23. Adult ♀ Coll. San Antonio, Lower California, Mexico. E. Heller.
24. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
25. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
- 26-30. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
31. Adult ♂ Coll. Juncolito Spring, Lower California, Mexico. E. Heller.
32. Adult ♂ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.
- 33-37. Adult ♂ Coll. Rosarito, Lower California, Mexico. E. Heller.
- 38-43. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.
44. Adult ♀ Coll. Mattomi, Lower California, Mexico. E. Heller.
45. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
46. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

a. Perognathus fallax pallidus Mearns.

Perognathus fallax pallidus Mearns, Proc. Biol. Soc. Wash., XIV, 1901, p. 135. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 366. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 314. Zool. Ser.

PALLID POCKET MOUSE.

1. Adult ♂ Coll. Whitewater, California. E. Heller.
- 2-4. Adult ♂ Coll. Morongo Pass, California. E. Heller.
5. Adult ♂ Coll. Warren's Well, California. E. Heller.
- 6-7. Adult ♂ Coll. Oro Grande, California. E. Heller.
8. Adult ♂ Coll. Victor, California. E. Heller.
9. Adult ♀ Exch. Mountain Spring, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.

10. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.

578. *Perognathus femoralis* Allen.

Perognathus femoralis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 281. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 254. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 367. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 314. Zoöl. Ser.

GREAT CALIFORNIA POCKET MOUSE.

1. Adult ♂ Exch. Dulzura, California. Am. Mus. Nat. Hist. N. Y. C. H. Marsh.
2. Adult ♂ Exch. Santa Ysabel, California. Am. Mus. Nat. Hist. N. Y. C. H. Marsh.
3. Adult ♀ P. San Ygnacio Valley, California. C. K. Worthern.
4. Adult ♂ P. Santee, San Diego County, California. F. Stephens.
- 5-6. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
7. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
8. Adult ♂ P. San Diego, California. F. Stephens.

a. Perognathus femoralis mesopolius Elliot.

Perognathus femoralis mesopolius Elliot, Pub. Field Columb. Mus., III, 1903, p. 168. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 367, fig. 68. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zoöl. Ser.

GRAY POCKET MOUSE.

- 1-2. Adult ♀ Type and paratype. Coll. Piñon, Lower California, Mexico. E. Heller.
- 3-4. Adult ♂ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
- 5-6. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
- 7-8. Adult ♂ Coll. Agua de las Fresas, Lower California, Mexico. E. Heller.
- 9-10. Adult ♀ Coll. Agua de las Fresas, Lower California, Mexico. E. Heller.
11. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.

12. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Agua Escondido, Lower California, Mexico. E. Heller.

579. *Perognathus californicus* Merriam.

Perognathus californicus Merr., N. Am. Faun., No. 1, 1889, p. 26. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 254. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zoöl. Ser.

CALIFORNIA POCKET MOUSE.

1. Adult ♂ P. Portola, California. W. W. Price.
2. Adult ♀ P. Portola, California. W. W. Price.

a. Perognathus californicus dispar Osgood.

Perognathus californicus dispar Osgood, N. Am. Faun., No. 18, 1900, p. 58. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 255. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zoöl. Ser.

ALLEN'S POCKET MOUSE.

- 1-2. Adult ♂ Coll. Fort Tejon, California. E. Heller.
3. Adult ♂ Coll. Piru Creek, California. E. Heller.
- 4-5. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.

580. *Perognathus spinatus* Merriam.

Perognathus spinatus Merr., N. Am. Faun., No. 1, 1889, p. 21. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 255. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 363. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zoöl. Ser.

SPINY POCKET MOUSE.

1. Adult ♂ P. Vallecitos, San Diego County, California. F. Stephens.
2. Adult ♂ P. San Felipe Cañon, California. F. Stephens.
- 3-4. Adult ♀ P. San Felipe Cañon, California. F. Stephens.
5. Adult ♂ P. Inwood Well, California. F. Stephens.
6. Adult ♂ P. Borego Springs, California. F. Stephens.
- 7-10. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 11-14. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.
- 15-17. Adult ♀ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.

18. Adult ♂ Coll. Cañon Diablo, Lower California, Mexico. E. Heller.
- 19-25. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller. •
- 26-27. Adult ♀ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
- 28-34. Adult ♂ Coll. Mattomi, Lower California, Mexico. E. Heller.
- 35-37. Adult ♀ Coll. Mattomi, Lower California, Mexico. E. Heller.
- 38-41. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 42-44. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
45. Adult ♂ Coll. Palomar, Lower California, Mexico. E. Heller.

Genus 157. • **Heteromys. Pouched Spiny Rats and Mice.**

Heteromys Desm., Nouv. Dict. Hist. Nat., Mamm., 1817, p. 313.

Type *Mus anomalus* Thompson.

Dasynotus Wagl., Nat. Syst. Amph., 1830, p. 21.

Sacomys F. Cuv., Mém. Mus. Hist. Nat. Paris, x, 1823, p. 419.

Xylomys Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 43.

Liomys Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 44.

Subgenus A. **Heteromys.**

581. Heteromys irroratus Gray.

Heteromys irroratus Gray, Proc. Zool. Soc., 1868, p. 205. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 369. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 316. Zool. Ser.

LA PARADA SPINY RAT.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
3. Juv. ♂ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.

582. Heteromys gaumeri Allen & Chapman.

Heteromys gaumeri Allen & Chapm., Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 9. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 371, fig. 69. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 317. Zool. Ser.

GAUMER'S SPINY RAT.

1. Adult ♂ Pres. Buenavista, Xbac, Yucatan. G. F. Gaumer.

583. *Heteromys goldmani* Merriam.

Heteromys goldmani Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 41. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 373. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 318. Zoöl. Ser.

GOLDMAN'S SPINY RAT.

- 1-3. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
4-7. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Subgenus B. *Liomys*.**584. *Heteromys paralius* Elliot.**

Heteromys paralius Elliot, Pub. Field Columb. Mus., iii, 1903, p. 233. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 381. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 320. Zoöl. Ser.

LITTORAL SPINY MOUSE.

- 1-3. Adult ♂ Type and paratypes. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
4-12. Adult ♀ Paratypes. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

585. *Heteromys jesupi* Allen.

Heteromys jesupi Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 201.

JESUP'S SPINY MOUSE.

1. Adult ♂ P. Don Diego, Colombia, South America. H. H. Smith.
2. Juv. ♂ P. Don Diego, Colombia, South America. H. H. Smith.
3. Adult ♀ P. Buritaca, Colombia, South America. H. H. Smith.

586. *Heteromys anomalus* (Thompson).

Mus anomalus Thomp., Trans. Linn. Soc., xi, 1815, p. 161, pl. x.

THOMPSON'S SPINY MOUSE.

- 1-2. Adult ♂ Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

- 3-4. Adult ♀ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

587. *Heteromys albolimbatus* Gray.

Heteromys albolimbatus Gray, Proc. Zool. Soc., 1868, p. 205. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 375, fig. 70. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 320. Zool. Ser.

GRAY'S SPINY MOUSE.

1. Adult ♂ Coll. Puente de Ixtla, State of Morelos, México. F. E. Lutz.
2. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

588. *Heteromys alleni* Coues.

Heteromys alleni Coues, Bull. Mus. Comp. Zool., VIII, 1881, p. 187. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 256, fig. 58. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 376, fig. 100. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 321. Zool. Ser.

ALLEN'S SPINY MOUSE.

1. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.



FIG. XXXVII. *HETEROMYS ALLENI*. ALLEN'S SPINY MOUSE.

589. *Heteromys exiguus* Elliot.

Heteromys exiguus Elliot, Pub. Field Columb. Mus., III, 1903, p. 146. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 377. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 321. Zoöl. Ser.

LITTLE SPINY MOUSE.

1. Adult ♂ Type. Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.

a. Heteromys pictus isthmius (Merriam).

Liomys pictus isthmius Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 46.

Heteromys pictus isthmius Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 378. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 322. Zoöl. Ser.

ISTHMIAN SPINY MOUSE.

- 1-2. Adult ♀ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.
3. Adult ♂ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.
- 4-5. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 6-7. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

590. *Heteromys texensis* (Merriam).

Heteromys alleni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 256. Zoöl. Ser. (nec Coues.)

Liomys texensis Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 44.

Heteromys texensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 323. Zoöl. Ser.

TEXAN SPINY MOUSE.

- 1-2. Adult ♂ Topotypes. P. Brownsville, Texas. C. K. Worthen.
- 3-4. Adult ♀ Topotypes. P. Brownsville, Texas. C. K. Worthen.
5. Adult ♂ Topotype. Exch. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.
6. Adult ♀ Topotype. Exch. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.

Family X. **Bathyergidæ.**Genus 158. **Bathyergus.**

Bathyergus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 86. Type
Mus maritimus Gmelin.

591. **Bathyergus maritimus** (Gmelin).

Mus maritimus Gmel., Syst. Nat., 1788, p. 140.

Mus suillus Schreb., Säugth., IV, 1792, p. 715.

CAPE OF GOOD HOPE MOLE RAT.

1. Adult ♀ P. Cape of Good Hope, Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 159. **Georhychus.**

Georhychus (sic) Illig., Prodr. Syst. Mamm. et Av., 1811, p. 87.
Type *Mus capensis* Pallas.

592. **Georhychus capensis** (Pallas).

Mus capensis Pall., Nov. Spec. Quad. Glir. Ord., 1777, pp. 72,
172, pl. VII.

CAPE MOLE RAT.

1. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 160. **Myoscalops.**

Myoscalops Thos., Proc. Zool. Soc., 1890, p. 448. Type *Heliophobius argenteo-cinereus* Peters.

Heliophobius Peters, Berich. Bekannt. geeign. Verhandl. K. Preuss. Akad. Wiss. Berl., 1846, p. 259. (nec Boisduval, 1829, Lepidop.)

593. **Myoscalops argenteo-cinereus** (Peters).

Heliophobius argenteo-cinereus Peters, Berich. Bekannt. geeign. Verhandl. K. Preuss. Akad. Wiss. Berl., 1846, p. 259.

Georychus! pallidus Gray, Proc. Zool. Soc., 1864, p. 124.

SILVER-GRAY MOLE MOUSE.

1. Adult — P. "Cape Colony"? Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 161. **Heterocephalus.**

Heterocephalus Rüpp., Mus. Senckenb., III, Heft 2, 1842, pp. 99-101, 175, Taf. VIII, fig. 1, x, figs. 3a-c. Type *Heterocephalus glaber* Rüppell.

594. **Heterocephalus philippsi** Thomas.

Heterocephalus philippsi Thos., Proc. Zool. Soc., 1885, pp. 612, 845, pl. LV, figs. 1-4.

NAKED MOLE MOUSE.

1. Adult ♀ Coll. Manderā, Gerato Pass, Somaliland, East Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.

Family XI. **Jaculidæ. Jumping Rats and Mice.**Subfamily I. **Sicistinæ.**Genus 162. **Sicista.**

Sicista Gray, in Griff. Anim. Kingd., v, 1827, p. 227. Type *Mus subtilis* Pallas.

Sminthus Nordm., in Demidoff's Voy. Russ. Mérid., III, livr. 1, cah. 1, 1839, pp. 49-51; Atl., tab. 4, fig. 2.

595. **Sicista subtilis** (Pallas).

Mus subtilis Pall., Reise, II, 1773, p. 705.

Mus vagus Pall., Nov. Spec. Quad. Glir. Ord., II, 1779, p. 327.

Mus betulinus Pall., Nov. Spec. Quad. Glir. Ord., II, 1779, p. 332.

CUNNING JUMPING RAT.

1. Adult — P. Karpathia, South Russia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Zapodinaæ.**Genus 163. **Zapus.**

Zapus Coues, Bull. U. S. Geol. Surv. Terr., 2d Ser., I, 1875, p. 253. Type *Dipus hudsonius* Zimmermann.

Dipus Zimm., Geogr. Gesch. Mensch. u. vierfüss. Thiere, II, 1780, p. 358. (Old World species.)

- Gerbillus* Rafin., Précis des Découv. Somolog., 1814, p. 14. (nec Desmarest, 1804.)
Meriones F. Cuv., Dents des Mamm., 1823, pp. 187, 256. (nec Illiger, 1811.)
Jaculus Wagl., Nat. Syst. Amphib., 1830, p. 23. (nec Erxleben, 1777.)
Napæozapus Preble, N. Am. Faun., No. 15, 1899, p. 33.
Eozapus Preble, N. Am. Faun., No. 15, 1899, p. 37.

Subgenus A. *Zapus*.

596. *Zapus hudsonius* (Zimmermann).

- Dipus hudsonius* Zimm., Geog. Gesch. Mensch. u. vierfüss. Thiere, II, 1780, p. 358.
Dipus labradorius Kerr., Anim. Kingd., 1792, p. 276.
Dipus canadensis Davies, Trans. Linn. Soc. Lond., IV, 1798, p. 157.
Jaculus americanus Wagl., Nat. Syst. Amphib., 1830, p. 23.
Meriones microcephalus Harl., Proc. Zool. Soc., 1839, p. 1.
Meriones acadicus Dawson, Edinb. New Philos. Journ., N. S., III, 1856, p. 2.
Zapus hudsonius hardyi Batchelder, Proc. N. Eng. Zool. Club, I, 1899, p. 5.
Zapus hudsonius Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 257, fig. 59. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 324. Zool. Ser.

HUDSON BAY JUMPING MOUSE.

1. Adult ♂ P. Shelter Island, New York. C. K. Worthern.
2. Adult ♂ Exch. Lawyerville, New York. Am. Mus. Nat. Hist. N. Y. Newell.
- 3-4. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
5. Adult — P. Illinois. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Zapus hudsonius campestris Preble.

- Zapus hudsonius campestris* Preble, N. Am. Faun., No. 15, 1899, p. 20. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 259. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 325. Zool. Ser.

PRAIRIE JUMPING MOUSE.

- 1-10. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 11-12. Adult ♀ P. Boulder, Colorado. R. T. Young.

13. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
14. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
15. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 16-17. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.

597. *Zapus princeps* Allen.

Zapus princeps Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p.

71. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 260. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 325. Zoöl. Ser.

ROCKY MOUNTAIN JUMPING MOUSE.

1. Adult ♂ Topotype. Exch. Florida, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

a. Zapus princeps minor Preble.

Zapus princeps minor Preble, N. Am. Faun., No. 15, 1899, p. 23.

- Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 260. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 325. Zoöl. Ser.

SASKATCHEWAN JUMPING MOUSE.

- 1-2. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 3-5. Juv. ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 6-8. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.
9. Adult ♀ P. Blindman River, Alberta, Canada. G. F. Dippie.
- 10-11. Adult ♂ P. Nat. Park, Alberta, Canada. G. F. Dippie.

598. *Zapus trinitatus* Rhoads.

Zapus trinitatus Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p.

421. Zoöl. Ser. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 261. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 326. Zoöl. Ser.

Zapus imperator Elliot, Pub. Field Columb. Mus., 1, 1899, p. 228. Zoöl. Ser.

NORTHWEST JUMPING MOUSE.

1. Adult ♂ P. Carpenter's Mt., Cariboo, British Columbia, Canada. C. K. Worthern.
2. Adult ♀ P. Carpenter's Mt., Cariboo, British Columbia, Canada. C. K. Worthern.
3. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthern.
4. Adult ♂ P. Okanagan, British Columbia, Canada. C. K. Worthern.
- 5-8. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.

- 9-10. Juv. ♀ Coll. MacDonald's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
- 11-17. Adult ♂ Type and paratypes of *Z. imperator*. Coll. Sieg's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
18. Juv. ♂ Coll. Sieg's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
- 19-21. Adult ♂ Coll. Boulder Creek, Elwah River, Clallam County, Washington. D. G. Elliot.
- 22-23. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 24-26. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 27-28. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 29-32. Adult ♂ Coll. Requa, California. E. Heller.
- 33-38. Adult ♂ Coll. Eureka, California. E. Heller.
- 39-42. Adult ♀ Coll. Eureka, California. E. Heller.
- 43-47. Adult ♂ Coll. Crescent City, California. E. Heller.
48. Adult ♀ Coll. Crescent City, California. E. Heller.
- 49-50. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 51-52. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- a. Zapus trinotatus alleni* (Elliot).
Zapus alleni Elliot, Pub. Field Columb. Mus., I, 1898, p. 212. Zoöl. Ser.
Zapus trinotatus alleni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 261. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 326. Zoöl. Ser.
- ALLEN'S JUMPING MOUSE.
- 1-3. Adult ♀ Type and paratypes. P. Pyramid Peak, California. W. W. Price.
4. Adult ♀ P. Blue Lake, California. W. W. Price.
- 5-6. Adult ♀ P. Silver Lake, California. W. W. Price.
7. Adult ♂ P. Hermit Valley, California. W. W. Price.
- 8-11. Adult ♀ P. Hermit Valley, California. W. W. Price.
12. Adult ♀ Coll. Mt. Whitney, California. E. Heller.

Subgenus B. *Napæozapus*.

599. *Zapus insignis* Miller.

Meriones labradorius Dawson, Edinb. New Philos. Journ., N. S., III 1856, p. 2. (nec Kerr.)

Jaculus hudsonius Baird, N. Am. Mamm., 1857, p. 467. (Part.)
Zapus insignis Miller; Amer. Nat., xxv, 1891, p. 742. Elliot,
 Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 263, fig. 60.
 Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 328. Zoöl. Ser.

WOODLAND JUMPING MOUSE.

- 1-2. Adult ♂ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.
3. Adult ♀ Exch. Peterborough, New York. U. S. Nat. Mus.
 Wash. G. S. Miller, Jr.

Subfamily III. **Jaculinæ. Jerboas.**

Genus 164. **Alactaga.**

Allactaga F. Cuv., Proc. Zoöl. Soc., 1836, pp. 141-142. Type *Dipus*
alactaga Olivier=*Mus jaculus* Pallas. (nec Linn.)
Alactaga F. Cuv., Trans. Zoöl. Soc. Lond., II, 1838, p. 133.

600. **Alactaga acontion** (Pallas).

Dipus acontion Pall., Zoogr. Rosso-Asiat., I, 1811, p. 182.

PALLAS'S JERBOA.

1. Adult — P. South Russia! Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XII. **Pedetidæ.**

Genus 165. **Pedetes.**

Pedetes Illig., Prodr. Syst. Mamm. et Av., 1811, p. 81. Type *Dipus*
cafer Gmelin=*Mus cafer* Pallas.

Helamys F. Cuv., Régn. Anim., I, 1817, p. 202. (footnote.)

Lagotis Blainv., Nouv. Dict. Hist. Nat., 2d ed., IX, 1817, p. 284.

601. **Pedetes cafer** (Pallas).

Mus cafer Pallas, Nov. Spec. Quad. Glir. Ord., 1778, p. 87.

Dipus cafer Schreb., Säugth., IV, 1792, p. 854, pl. 230.

Pedetes caffer A. Smith, Descr. Cat. S. Afric. Mus., 1826, p. 26.

Parsons, Proc. Zoöl. Soc., 1898, p. 858. Sclat., Proc. Zoöl.
 Soc., 1899, p. 428.

Helamys capensis F. Cuv., Hist. Nat. Mamm., 1829, pl.

Pedetes typicus A. Smith, S. Afr. Quat. Journ., II, 1834, p. 169.
SPRING NAAS.

1. Adult — P. Cape Colony, South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XIII. **Ctenodactylidæ.**

Genus 166. **Pectinator.**

Pectinator Blyth, Jour. Asiat. Soc. Beng., xxiv, 1856, p. 294. Type
Pectinator spekei Blyth.

602. **Pectinator spekii** Blyth.

Pectinator spekei Blyth, Jour. Asiat. Soc. Beng., xxiv, 1856, p.
294, pl. II, figs. 1.

SPEKE'S JUMPING MOUSE.

1. Adult ♂ Coll. Adadleh, Somaliland, East Africa. D. G. Elliot.

Family XIV. **Octodontidæ. The Octodonts.**

Subfamily I. **Octodontinæ.**

Genus 167. **Ctenomys.**

Ctenomys Blainv., Bull. Soc. Philom. Paris, 1826, p. 64. Type
Ctenomys brasiliensis Blainville.

603. **Ctenomys opimus** Wagner.

Ctenomys opimus Wagn., Archiv Naturg., I, 1848, p. 75.

Ctenomys brasiliensis Waterh., Nat. Hist. Mamm., II, 1848, p.
273. (nec Blainville.)

BOLIVIAN CTENOMYS.

1. Adult — P. Sajama, Bolivia. E. Gerrard & Sons.

Subfamily II. **Echinomyinæ.**

Genus 168. **Loncheres.**

Loncheres Illig., Prodr. Syst. Mamm. et Av., 1811, p. 90. Type *Hys-*
trix chrysuros! Schreber = *Myoxus chrysurus* Zimmermann.

604. *Loncheres guianæ* Thomas.

Loncheres guianæ Thos., Ann. Mag. Nat. Hist., 6th Ser., 11, 1888,
p. 326. Allen & Chapm., Bull. Am. Mus. Nat. Hist. N. Y.,
1893, p. 228.

GUIANA SPINY RAT.

1. Adult ♂ Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y.
F. M. Chapman.

Genus 169. ***Proechinomys*.**

Proëchimys (sic) Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899,
p. 264. Type *Echimys! trinitatis* Allen & Chapman.

605. *Proechinomys trinitatis* (Allen & Chapman).

Echimys! trinitatis Allen & Chapm., Bull. Am. Mus. Nat. Hist.
N. Y., 1893, p. 223.

Proëchimys! trinitatis Allen, Bull. Am. Mus. Nat. Hist. N. Y.,
1899, p. 264.

TRINIDAD SPINY RAT.

1. Adult ♂ Exch. Caparo, Trinidad. Am. Mus. Nat. Hist. N. Y.
F. M. Chapman.
2. Adult ♀ Exch. Caparo, Trinidad. Am. Mus. Nat. Hist. N. Y.
F. M. Chapman.
3. Adult ♂ Paratype. Exch. Princetown, Trinidad. Am. Mus.
Nat. Hist. N. Y. F. M. Chapman.
4. Adult ♀ Paratype. Exch. Princetown, Trinidad. Am. Mus.
Nat. Hist. N. Y. F. M. Chapman.

606. *Proechinomys mincæ* (Allen).

Echimys! mincæ Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 198.

Proëchimys! mincæ Allen, Bull. Am. Mus. Nat. Hist. N. Y.,
1899, p. 264.

MINCA SPINY RAT.

- 1-5. Adult ♂ Paratypes. P. Minca, Colombia, S. A. H. H.
Smith.
- 6-8. Adult ♀ Paratypes. P. Minca, Colombia, S. A. H. H.
Smith.
- 9-10. Juv. — Paratypes. P. Minca, Colombia, S. A. H. H.
Smith.

607. *Proechinomys canicollis* (Allen).

Echimys! canicollis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899,
p. 200.

Proechimys! canicollis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 264.

GOLDEN-NAPED SPINY RAT.

- 1-3. Adult ♂ P. Mamatoca, Colombia, South America. H. H. Smith.
- 4-7. Adult ♀ P. Mamatoca, Colombia, South America. H. H. Smith.
- 8. Juv. ♀ P. Mamatoca, Colombia, South America. H. H. Smith.
- 9. Adult ♂ Paratype. P. Bonda, Colombia, South America. H. H. Smith.
- 10. Adult ♂ P. Santa Marta, Colombia, South America. H. H. Smith.

a. *Proechinomys centralis chiriquinus* Thomas.

Proechimys! centralis chiriquinus Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 220.

Proechinomys centralis chiriquinus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 387. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 329. Zoöl. Ser.

BOGAVA SPINY RAT.

- 1-10. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 11-12. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Subfamily III. **Capromyinae.**

Genus 170. **Myocastor.**

Myocastor Kerr, Anim. Kingd., Mamm., 1, Syst. Cat., Nos. 458-521, 1792, pp. 225-226. Type *Mus coypus* Molina.

Myopotamus Geoff., Ann. Mus. Hist. Nat. Paris, vi, 1805, p. 81.

608. **Myocastor coypus** (Molina).

Mus coypus Molina, Sag. Stor. Nat. Chili, 1782, p. 287.

BEAVER RAT.

- 1. Adult — P. "Chili." Ward's Nat. Scien. Establish., Rochester, N. Y.

Genus 171. **Capromys. Hutias.**

Capromys Desm., Mém. Soc. Hist. Nat. Paris, 1, 1822, p. 43. Type *Capromys furnieri* Desmarest = *Isodon pilorides* Say.

Geocapromys Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 314.

Procapromys Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 322.

Subgenus A. *Capromys*.

609. *Capromys pilorides* (Say).

Isodon pilorides Say, Jour. Acad. Nat. Scien. Phil., 11, 1822, p. 333, fig.

Capromys fournieri Desm., Mém. Soc. Hist. Nat. Paris, 1822, p. 43, pl. 1.

Capromys quemi Fisch., Syn. Mamm., 1830, Adden., p. 389.

Capromys pilorides Fisch., Syn. Mamm., 1830, Adden., p. 389.

Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV,

Pt. 1, 1904, p. 390, figs. 73, LII. Zoöl. Ser. *Id.* Check-L.

Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 330. Zoöl. Ser.

HAIRY HUTIA.

1. Adult — Pres. Cuba. C. B. Cory?

2. Adult — P. Cuba. Ward's Nat. Scien. Establ., Rochester, N. Y.

610. *Capromys prehensilis* Poeppig.

Capromys prehensilis Poeppig, Jour. Acad. Nat. Scien. Phil., 1824, p. 11. Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. 1, 1904, p. 391. Zoöl. Ser. *Id.* Check-L.

Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,

p. 331. Zoöl. Ser.

PREHENSILE-TAILED HUTIA.

1. Adult — Pres. Cuba. C. B. Cory?

Subgenus B. *Geocapromys*.

611. *Capromys ingrahami* Allen.

Capromys ingrahami Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 329. Elliot, Mamm. Middle Amer. & W. Indies,

F. C. M. Pub., IV, Pt. 1, 1904, p. 394. Zoöl. Ser. *Id.* Check-L.

Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,

p. 332. Zoöl. Ser.

INGRAHAM'S HUTIA.

1. Adult — Exch. Plana Keys, Bahamas. Am. Mus. Nat. Hist. N. Y. D. P. Ingraham.

Genus 172. **Thryonomys.**

- Thryonomys** Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LVI, 1867, p. 141. Type *Aulacodus semipalmatus* Heuglin.
Aulacodus Temm., Mon. Mamm., 1, 1827, p. 245, pl. xxv. (nec Eschscholtz, 1822, Coleopt.)
Triaulacodus Lydekk., Geog. Hist. Mamm., 1896, pp. 91, 240. (footnote.)

612. **Thryonomys swinderenianus** (Temminck).

Aulacodus swinderenianus Temm., Monog. Mamm., 1, 1827, p. 245, pl. xxv.

CANE RAT.

1. Adult — P. Africa! Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XV. **Erethizontidæ.**Subfamily I. **Erethizontinæ.**Genus 173. **Erethizon. Long-spined Porcupines.**

- Erethizon** F. Cuv., Mém. Mus. Hist. Nat. Paris, ix, 1822, p. 436.
 Type *Hystrix dorsata* Linnæus.
Echinothrix Brookes, Cat. Anat. & Zoöl. Mus. J. Brookes, Lond., 1828, p. 54.
Echinoprocta Gray, Proc. Zoöl. Soc., 1865, pp. 321-322, desc.

613. **Erethizon epixanthum** Brandt.

Erethizon epixanthus Brandt, Mém. Acad. Imp. Scien. St. Pétersb., 6th Ser., 1835, p. 390, pls. 1, 9. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 265. Zoöl. Ser.
Erethizon epixanthum Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 397, figs. 76, LIV. Zoöl. Ser.
 Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 332. Zoöl. Ser.

WESTERN PORCUPINE.

1. Adult ♀ Coll. Mt. Whitney, Inyo County, California. E. Heller.
2. Adult — P. California. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult — P. Kansas. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. XXXVIII. ERETHIZON EPIXANTHUM. WESTERN PORCUPINE.

614. *Erethizon dorsatum* (Linnæus).

Hystrix dorsata Linn., Syst. Nat., 1, 1758, p. 57; 1, 1766, p. 76.

Hystrix pilosus Richards., Faun. Bor. Amer., Mamm., 1, 1829, p. 214. (nec Peale.)

Hystrix hudsonius De Kay, Nat. Hist. N. Y., Zoöl., 1, 1842, p. 77, pl. VIII, figs. 2 a, b, c, pl. XXVI, fig. 1.

Erethizon dorsatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 264, pl. XXIV. Zoöl. Ser.

Erethizon dorsatum Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 333. Zoöl. Ser.

CANADIAN TREE PORCUPINE.

1. Adult — P. "Ontario," Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. —? Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 174. Coendu.

Coendou Lacép., Disc. d'ouvert. et de cloture du Cours Hist. Nat., et Tabl. Méthod. des Mamm. et des Oiseaux, Suppl., 1799, p.

11. Type *Hystrix prehensilis* Linnæus.

Eucritus Fisch., Mém. Soc. Imp. Mosc., v, 1817, pp. 372, 411.

Sinetheres (sic) F. Cuv., Mém. Mus. Hist. Nat. Paris, ix, 1822, p. 433.

Laboura Bilb., Syn. Faun. Scandinav., Mamm., i, 1828, Consp. A.

Cercolabes Brandt, Mamm. Exot. Nov., in Mém. Acad. Imp. St. Pétersb., Sér. 3, III, 1835, p. 55.

615. *Coendu mexicanum* (Kerr).

Hystrix mexicana Kerr, Anim. Kingd., 1792, p. 214.

Hystrix prehensilis Schreb., Säugth., iv, 1792, p. 603.

Coendu mexicanum Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 402, figs. 77, LV. Zoöl. Ser.



FIG. XXXIX. COENDU MEXICANUM. PREHENSILE-TAILED PORCUPINE.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 335. Zoöl. Ser.

PREHENSILE-TAILED PORCUPINE.

1. Adult — P. Venezuela. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

3. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Family XVI. **Hystricidæ. Old World Porcupines.**Subfamily I. **Hystricinae.**Genus 175. **Hystrix.**

Hystrix Linn., Syst. Nat., I, 1758, p. 56. Type *Hystrix cristata* Linnæus.

616. Hystrix cristata Linnæus.

Hystrix cristata Linn., Syst. Nat., I, 1758, p. 76.

Acanthion cuvieri Gray, Proc. Zool. Soc., 1847, p. 102.

EUROPEAN PORCUPINE.

1. Adult — P. "Europe"! Ward's Nat. Scien. Establ., Rochester, N. Y.

617. Hystrix crassipinis Günther.

Hystrix crassipinis Günth., Proc. Zool. Soc., 1876, p. 736, figs.

a, b, c. Elliot, Pub. Field Columb. Mus., I, 1896, p. 71. Zool. Ser.

LARGE-SPINED PORCUPINE.

1. Adult — P. Borneo. Menage Scientific Exped. Bourns & Worcester.

Genus 176. **Trichys.**

Trichys Günth., Proc. Zool. Soc., 1876, p. 739, pl. LXXI, figs. 2, 2a.

Type *Trichys lipura* Günther.

618. Trichys lipura Günther.

Trichys lipura Günth., Proc. Zool. Soc., 1876, p. 739.

Trichys guentheri Thos., Proc. Zool. Soc., 1889, p. 235.

GÜNTHER'S PORCUPINE. *Augkis*, native name.

1. Adult — P. Sibuyan River, Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XVII. **Viscaciidæ.**Genus 177. **Calomys.**

***Callomys!** d'Orb. & I. Geoff., Ann. Sci. Nat. Paris, XXI, 1830, p. 289. Type *Callomys! aureus* d'Orbigny & I. Geoffroy = *Lagidium peruanum* Meyen.

*In 1816 Oken (l. c.) proposed the genus VISCACCIA for the two species, *Lepus chilensis* and *Mus laniger*, the latter, however, excluded by the characters

Lagidium Meyen, Nov. Act. Acad. Cæs. Leop.-Carol., xvi, Pt. II, 1833, pp. 576-580, tab. xli, xlii, figs. 1-3, 11.

619. Calomys aureus d'Orbigny & I. Geoffroy.

Callomys! aureus d'Orb. & I. Geoff., Ann. Sci. Nat. Paris, xxi, 1830, p. 291.

Lagidium peruanum Meyen, Nov. Act. Acad. Cæs. Leop.-Carol., xvi, Pt. II, 1833, pp. 576-580, tab. xli, xlii.

Lagotis cuvieri Bennett, Proc. Zool. Soc., 1833, p. 59.

FOUR-TOED VISCACHA.

1. Adult — P. Chili. Ward's Nat. Sci. Establ., Rochester, N. Y.

Genus 178. Viscacia.

Viscaccia Oken, Lehrb. d. Naturg., III, 1816, p. 835. Type *Lepus chilensis* Oken = *Dipus maximus* Desmarest.

Viscacia Rafin., Anal. de la Nat., 1815, p. 56. (nomen nudum.)

Lagostomus Brookes, Zool. Jour., IV, 1828, p. 133.

620. Viscacia chilensis (Oken).

Lepus chilensis Oken, Lehrb. d. Naturg., III, 1816, p. 835.

Dipus maximus Desm., Nouv. Dict. Hist. Nat., XIII, 1817, p. 117.

Lagostomus trichodactylus Brookes, Zool. Jour., IV, 1828, p. 133.

Callomys! viscacia d'Orb. & I. Geoff., Ann. Sci. Nat. Paris, xxi, 1830, p. 291. (nec Molina.)

Lagostomus viscacha Meyen, Nov. Act. Acad. Cæs. Leop.-Carol., xvi, 1833, p. 584.

VISCACHA.

1. Adult — P. Buenos Aires, Argentina, South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XVIII. Agoutidæ. Agoutis, Paca.

Genus 179. Dasyprocta. Agoutis.

Dasyprocta Illig., Prodr. Syst. Mamm. et Av., 1811, p. 93. Type undetermined.

in his diagnosis. In 1829 this *Mus laniger* was made the type of the genus *Chinchilla* Bennett, Gardens & Menag. Zool. Soc., I, p. 1. In 1830 d'Orbigny & I. Geoff., Ann. Scien. Nat. Paris., xxi, p. 289. instituted the genus *Calomys* (sic), including in it *Callomys! viscacia* d'Orb. & Geoff. *Viscacia chilensis*-

Cutia Liai, Climats, Géol., Faun. et Geog., Botan. Brésil, 1872, p. 534.

Myoprocta Thos., Ann. Mag. Nat. Hist., 7th Ser., XII, 1903, p. 464.

621. *Dasyprocta punctata* Gray.

Dasyprocta punctata Gray, Ann. Nat. Hist., x, 1842, p. 264. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 405. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 336. Zool. Ser.

Dasyprocta aguti Tomes, Proc. Zool. Soc., 1861, p. 281. (nec Linn.)

Dasyprocta azaræ Tomes, Proc. Zool. Soc., 1861, p. 287. (nec Licht.)

SPOTTED AGOUTI.

1. Adult — Pres. Rio Lagato, Yucatan. C. B. Cory.

622. *Dasyprocta mexicana* Saussure.

Dasyprocta mexicana Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 53. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 405, fig. 78. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 336. Zool. Ser.

MEXICAN AGOUTI.

1-5. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

6-7. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

623. *Dasyprocta coibæ* Thomas.

Dasyprocta coibæ Thos., Novitat. Zool., IX, 1902, p. 136. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 407. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 336. Zool. Ser.

COIBA AGOUTI.

1-2. Adult ♂ Topotypes. P. Coiba Island, Panama. J. H. Batty.

Mus laniger Molina, and *Callomys! aureus* d'Orb. & Geoff. = *Lagidium peruanum* Meyen, 1833. *Calomys viscacia* = *V. chilensis*, which is the type of its genus, and *Mus laniger* having been made the type of *Chinchilla* there is left but *C. aureus* = *Lagidium peruanum* for the type of *Calomys*, which, having a priority of three years, antedates *Lagidium*.

624. Dasyprocta aguti (Linnæus).

Mus aguti Linn., Syst. Nat., I, 1766, p. 80.

Dasyprocta aguti Desm., Mamm., 1820, p. 358.

YELLOW-RUMPED AGOUTI.

1. Adult — P. Guiana. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 180. **Agouti. Paca.**

Agouti Lacep., Tabl. Divis. Sous-divis. Ordres et Gen. Mamm., 1799, p. 9. Type *Mus paca* Linnæus.

Cælogenus (sic) F. Cuv., Ann. Mus. Hist. Nat. Paris, x, 1807, p. 203.

Paca Fisch., Zoogn., III, 1814, p. 85.

Genyscælus Liais, Climats, Géol., Faun. et Geogr., Botan. Brésil, 1872, p. 537.

625. Agouti paca (Linnæus).

Mus paca Linn., Syst. Nat., I, 1766, p. 81.

THE PACA.

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XIX. **Caviidæ. Cavies.**Genus 181. **Cavia.**

Cavia Pallas, Misc. Zool., 1766, p. 30. Type *Cavia cobaya* Pallas.

626. Cavia aperea Erxleben.

Cavia aperea Erxleb., Syst. Reg. Anim., 1777, p. 348.

Cavia leucopyga Brandt, Mém. Acad. Sci. St. Pétersb., III, 1835, p. 436, pl. 16.

ERXLEBEN'S CAVY.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

627. Cavia porcellus (Linnæus).

Mus porcellus Linn., Syst. Nat., I, 1758, p. 59; I, 1766, p. 79.

RESTLESS CAVY.

1. Adult — P. No locality. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 182. **Hydrochærus.****Hydrochærus** Brisson, Regn. Anim., 2d ed., 1762, pp. 12, 80-81.Type *Hydrochærus hydrochærus* Brisson = *Sus hydrochæris* Linnæus.**628. Hydrochærus hydrochærus** (Linnæus).*Sus hydrochæris*! Linn., Syst. Nat., 1, 1766, p. 103.*Hydrochærus capybara* Erxleben, Syst. Regn. Anim., 1777, p. 193. Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 56, pl. 174. Tschudi, Faun. Peru., 1844, p. 194. Waterh., Mamm., II, 1848, p. 201, pl. 5, fig. 2. Flower, Proc. Zool. Soc., 1884, p. 252.

CAPYBARA WATER-HOG.

1. Adult — P. South America! Ward's Nat. Scien. Establ., Rochester, N. Y.

SUBORDER II. DUPLICIDENTATA.

Family XX. **Ochotonidæ.**Genus 183. **Ochotona. Pikas, Chief Hares.****Ochotona** Link, Zool. Beitr. Naturg., 1, Pt. II, 1795, p. 74. Type undetermined.*Lagomys* Storr, Prodr. Meth. Mamm., 1780, pp. 39-40, tab. B.*Ogotoma* Gray, Ann. Mag. Nat. Hist., 3d Ser., XX, 1867, p. 220.**629. Ochotona princeps** (Richardson).*Lepus princeps* Richards., Zool. Jour., III, 1828, p. 520.*Ochotona princeps* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 267, fig. 61. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 338. Zool. Ser.

CHIEF PIKA.

1-2. Adult ♀ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.

3-6. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.

7-8. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.

9-10. Adult ♀ P. Banff, Alberta, Canada. G. F. Dippie.

630. Ochotona schisticeps (Merriam).*Lagomys schisticeps* Merr., N. Am. Faun., No. 2, 1889, p. 11.

Ochotona schisticeps Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 11, 1901, p. 267. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 338. Zoöl. Ser.

GRAY-HEADED PIKA.

- 1-7. Adult ♂ Coll. Big Cottonwood Lakes, Mt. Whitney, Inyo
 County, California. E. Heller.
 8-10. Adult ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, Inyo
 County, California. E. Heller.

631. *Ochotona saxatilis* Bangs.

Ochotona saxatilis Bangs, Proc. N. Engl. Zoöl. Club, 1, 1899, p.
 41. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p.
 268. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.
 Indies, F. C. M. Pub., VI, 1905, p. 339. Zoöl. Ser.

ROCK PIKA.

- 1-5. Adult ♂ P. Boulder County, Colorado. R. T. Young.
 6-7. Adult ♀ P. Boulder County, Colorado. R. T. Young.

632. *Ochotona minima* (Lord).

Lagomys minimus Lord, Proc. Zoöl. Soc., 1863, p. 98.
Ochotona minimus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11,
 1901, p. 269. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 339. Zoöl. Ser.

LEAST PIKA.

1. Adult ♂ P. Chilliwack, British Columbia, Canada. A. C. Brooks

Family XXI. **Leporidae. Hares, Rabbits.**

Genus 184. **Lepus.**

Lepus Linn., Syst. Nat., 1, 1758, p. 57; 1, 1766, p. 77. Type *Lepus*
timidus Linnæus.

Hydrolagus Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 221.
Sylvilagus Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 222.
Tapeti Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 224.
Oryctolagus Lillj., Sverig. och Norg. Rygggrad., 1, 1873, pp. 417,
 441-442.

Macrotolagus Mearns, Science, 1, 1895, p. 698.

Microlagus Trouess., Cat. Mamm. Viv. quam Foss., 1897, fasc.
 III, p. 660.

Limnolagus Mearns, Science, N. S., v., 1897, p. 393.

Brachylagus Miller, Proc. Biol. Soc. Wash., XIII, 1900, p. 157.

Subgenus A. *Limnolagus*. Swamp Hares.a. *Lepus aquaticus attwateri* Allen.

Lepus aquaticus attwateri Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 327. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 278. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 414, pl. XL. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 340. Zool. Ser.

ATTWATER'S SWAMP HARE.

1. Adult — Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

633. *Lepus palustris* Bachman.

Lepus palustris Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 194. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 279. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 415. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 341. Zool. Ser.

EASTERN SWAMP HARE. *Conejo* in Mexico.

1. Adult — P. Frogmore, South Carolina. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ Coll. New Berlin, Florida. T. Surber.

a. *Lepus palustris paludicola* (Miller & Bangs).

Lepus paludicola Miller & Bangs, Proc. Biol. Soc. Wash., IX, 1894, p. 105.

Lepus palustris paludicola Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 279. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 341. Zool. Ser.

FLORIDA SWAMP HARE.

1. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 2-4. Adult ♀ Coll. Enterprise, Florida. T. Surber.
5. Adult ♂ Coll. Gainesville, Florida. T. Surber.
6. Adult ♀ Coll. Gainesville, Florida. T. Surber.
7. Adult ♂ Exch. Micco, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

634. *Lepus telmalemonus* Elliot.

Lepus telmalemonus Elliot, Pub. Field Columb. Mus., 1, 1899, p. 285. Zool. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 278, pl. xxv. Zool. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 341.
Zoöl. Ser.

WANDERING SWAMP HARE.

1. Adult ♂ Type. Coll. Dougherty, Indian Territory. T. Surber.
2. Adult ♀ Paratype. Coll. Dougherty, Indian Territory. T. Surber.

635. *Lepus truei* Allen.

Lepus truei Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 192.

Lepus truei Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 415. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 341. Zoöl. Ser.

TRUE'S SWAMP HARE.

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Subgenus B. *Sylvilagus*. Forest Hares.

636. *Lepus floridanus* (Allen).

Lepus sylvaticus floridanus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 160.

Lepus floridanus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 280, pl. XXVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zoöl. Ser.

FLORIDA COTTON-TAIL.

1. Adult ♂ Coll. Micco, Florida. T. Surber.
 - 2-3. Juv. — Coll. Enterprise, Florida. T. Surber.
- a. *Lepus floridanus mallurus* (Thomas).
Lepus sylvaticus Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 403. (nec Nillson.)
Lepus nuttalli mallurus Thos., Ann. Mag. Nat. Hist., 7th Ser., II, 1898, p. 320.
Lepus floridanus mallurus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 280. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zoöl. Ser.

COMMON COTTON-TAIL.

1. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
- 2-4. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
5. Adult ♂ Coll. Apex, North Carolina. T. Surber.

6. Adult ♂ Coll. Gainesville, Florida. T. Surber.
7. Adult ♂ Coll. Enterprise, Florida. T. Surber.
8. Adult ♀ Coll. Enterprise, Florida. T. Surber.
9. Adult ♂ Pres. Hicksville, Ohio. S. E. Meek.
10. Adult — Pres. Hicksville, Ohio. S. E. Meek.
- 11-17. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 18-22. Adult ♀ P. Lawrence, Kansas. J. Rowley.
23. Adult — P. Raleigh, North Carolina. Ward's Nat. Scien. Establ., Rochester, N. Y.
24. Adult — Coll. Fox Lake, Illinois. L. Pray.

b. Lepus floridanus mearnsi (Allen).

- Lepus sylvaticus mearnsii* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 171.
- Lepus floridanus mearnsi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 13. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 280. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zool. Ser.

MEARNS'S COTTON-TAIL.

- 1-2. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 3-5. Adult ♀ P. Knoxville, Iowa. G. K. Cherrie.
6. Adult ♀ Exch. Toronto, Ontario, Canada. Am. Mus. Nat. Hist. N. Y. E. S. Thompson.
- 7-8. Adult ♀ P. Dickinson, Dakota. G. K. Cherrie.
9. Adult ♂ Topotype. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
10. Adult ♂ Pres. Beaver Dam, Wisconsin. W. E. Snyder.

c. Lepus floridanus transitionalis (Bangs).

- Lepus sylvaticus transitionalis* Bangs, Proc. Bost. Soc. Nat. Hist., 1895, p. 405.
- Lepus floridanus transitionalis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 281. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zool. Ser.

BANGS'S COTTON-TAIL.

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.

d. Lepus floridanus alacer (Bangs).

- Lepus sylvaticus alacer* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 136.
- Lepus floridanus alacer* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 282. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zool. Ser.

LIVELY COTTON-TAIL.

1. Adult ♂ Exch. Long Island, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

e. *Lepus floridanus chapmani* (Allen).

Lepus sylvaticus bachmani Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 170. (nec Waterhouse.)

Lepus floridanus chapmani Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 12. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 282. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zool. Ser.

CHAPMAN'S COTTON-TAIL.

- 1-2. Adult ♂ Topotypes. P. Corpus Christi, Texas. G. K. Cherrie.

- 3-5. Adult ♀ Topotypes. P. Corpus Christi, Texas. G. K. Cherrie.

6. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

f. *Lepus floridanus connectens* Nelson.

Lepus floridanus connectens Nelson, Proc. Biol. Soc. Wash., xvii, 1904, p. 105. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, Append., p. 743. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zool. Ser.

ALTA MIRA COTTON-TAIL.

- 1-2. Adult ♂ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

3. Adult — Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

4. Adult ♂ Coll. Valles Estado, State of San Luis Potosi, Mexico. G. F. Breninger.

g. *Lepus floridanus aztecus* (Allen).

Lepus sylvaticus aztecus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 188.

Lepus floridanus aztecus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 418. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 344. Zool. Ser.

TEHUANTEPEC COTTON-TAIL.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

3-7. Adult ♂ Pres. San Felipe, Yucatan, Mexico. C. B. Cory.

h. Lepus floridanus subcinctus Miller.

Lepus floridanus subcinctus Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 386. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 417, fig. 80. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 344. Zoöl. Ser.

MICHOACAN COTTON-TAIL.

1. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
2. Adult ♀ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

i. Lepus floridanus persultator Elliot.

Lepus floridanus persultator Elliot, Pub. Field Columb. Mus., III, 1903, p. 147. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 418. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 345. Zoöl. Ser.

PUEBLA COTTON-TAIL.

1. Adult — Type. Coll. Puebla, State of Puebla, Mexico. F. E. Lutz.

j. Lepus floridanus holzneri (Mearns).

Lepus sylvaticus holzneri Mearns, Proc. U. S. Nat. Mus., 1896, p. 554.

Lepus floridanus rigidus Mearns, Proc. U. S. Nat. Mus., 1896, p. 555. (footnote.)

Lepus holzneri Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 284. Zoöl. Ser.

Lepus durangæ Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1903, p. 609. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 424, Index, p. XI. Zoöl. Ser.

Lepus floridanus holzneri Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 419. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 345. Zoöl. Ser.

HOLZNER'S COTTON-TAIL.

1. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
2. Juv. ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

637. *Lepus sanctidiegi* (Miller).

Lepus floridanus sanctidiegi Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 389.

Lepus auduboni sanctidiegi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 283. Zoöl. Ser.

Lepus sanctidiegi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 422. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 345. Zoöl. Ser.

SAN DIEGO COTTON-TAIL.

- 1-2. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
- 3-5. Adult ♀ Coll. El Alamo, Lower California, Mexico. E. Heller.
6. Adult ♂ Coll. San Tomas, Lower California, Mexico. E. Heller.
- 7-11. Adult ♂ P. Elsinore, California. J. Rowley.
12. Adult ♀ P. Elsinore, California. J. Rowley.
13. Adult ♂ P. Los Angeles, California. J. Rowley.
14. Adult ♀ P. Los Angeles, California. J. Rowley.
15. Adult ♀ Exch. Dulzura, California. Am. Mus. Nat. Hist. N. Y. C. H. Marsh.
16. Adult ♂ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
17. Adult ♀ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

638. *Lepus laticinctus* Elliot.

Lepus laticinctus Elliot, Pub. Field Columb. Mus., III, 1903, p. 254. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 346. Zoöl. Ser.

BROAD-BANDED COTTON-TAIL.

- 1-3. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 4-5. Adult ♀ Coll. Fort Tejon, California. E. Heller.
- 6-9. Adult ♂ Type and paratypes. Coll. Oro Grande, California. E. Heller.
10. Adult ♀ Paratype. Coll. Oro Grande, California. E. Heller.
11. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

a. *Lepus laticinctus rufipes* Elliot.

Lepus laticinctus rufipes Elliot, Pub. Field Columb. Mus., III, 1903, p. 254. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 346. Zoöl. Ser.

RUSSET-FOOTED COTTON-TAIL.

- 1-6. Adult ♂ Type and paratypes. Coll. Furnace Creek, Death Valley, California. E. Heller.

- 7-9. Adult ♀ Paratypes. Coll. Furnace Creek, Death Valley, California. E. Heller.

b. Lepus laticinctus perplicatus Elliot.

- Lepus laticinctus perplicatus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 255. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 347. Zoöl. Ser.

MIXED COTTON-TAIL.

1. Adult ♂ Type. Coll. Hannopee Cañon, Panamint Mountains, California. E. Heller.
- 2-5. Adult ♀ Coll. Bryan Mine, Coso Mountains, California. E. Heller.
6. Juv. ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
7. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.

639. *Lepus veræcrucis* Thomas.

- Lepus veræcrucis* Thomas, Proc. Zoöl. Soc., 1890, p. 74, pl. VII. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 420. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 347. Zoöl. Ser.

VERA CRUZ COTTON-TAIL.

- 1-2. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 3-4. Juv. ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
5. Juv. ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

640. *Lepus insolitus* Allen.

- Lepus insolitus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 189. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 421. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 348. Zoöl. Ser.

PLAINS COTTON-TAIL.

- 1-2. Adult ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 3-5. Adult ♀ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
6. Adult — P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
7. Juv. — P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.

641. *Lepus superciliaris* Allen.

- Lepus (Sylvilagus) superciliaris* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 196.

Sylvilagus superciliaris Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 445.

BONDA COTTON-TAIL.

- 1-2. Adult ♂ Paratypes. P. Bonda, Colombia, South America. H. H. Smith.
- 3-6. Adult ♀ Paratypes. P. Bonda, Colombia, South America. H. H. Smith.

642. *Lepus nuttalli* Bachman.

Lepus nuttalli Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 345, pl. 22. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 284. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 425. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 348. Zoöl. Ser.

NUTTALL'S COTTON-TAIL.

1. Adult ♂ P. Alberta, Canada. G. F. Dippie.
2. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
3. Adult ♀ Exch. Indian Reservation, Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 4-7. Adult ♂ P. Rockvale, Colorado. C. K. Mason.
8. Adult ♀ P. Rockvale, Colorado. C. K. Mason.
9. Adult — P. Quenda, Colorado. C. K. Mason.
10. Adult ♀ P. Greenhorn Mts., Colorado. C. K. Mason.
11. Adult — P. Fremont County, Colorado. C. K. Mason.

643. *Lepus baileyi* Merriam.

Lepus baileyi Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 148. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 284. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

BAILEY'S COTTON-TAIL.

1. Adult ♂ P. Billings, Montana. E. S. Thompson.
2. Adult ♀ P. Billings, Montana. E. S. Thompson.

644. *Lepus grangeri* (Allen).

Lepus sylvaticus grangeri Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 264.

Lepus grangeri Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 246. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 285. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

GRANGER'S COTTON-TAIL.

1. Adult ♂ Exch. Battle Creek, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

2. Juv. ♂ Exch. Cheyenne Reservation, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

645. *Lepus arizonæ* (Allen).

- Lepus sylvaticus* var. *arizonæ* Allen, N. Am. Rod., 1877, p. 332.
Lepus arizonæ Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 285. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

ARIZONA COTTON-TAIL.

1. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
 2-4. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
 5. Adult ♀ P. Fairbank, Arizona. W. W. Price.
 6-7. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
 8-10. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
 11. Adult — P. Fort Lowell, Arizona. W. W. Price.
 12-13. Adult ♀ P. Mt. Siegel, Nevada. W. W. Price.
 14. Juv. ♀ P. Mt. Siegel, Nevada. W. W. Price.
 15. Adult ♂ P. Anderson's Ranch, Nevada. W. W. Price.
 16. Juv. ♂ P. Anderson's Ranch, Nevada. W. W. Price.
 17-18. Adult ♀ P. Anderson's Ranch, Nevada. W. W. Price.
 19. Juv. ♀ P. Huachuca Mts., Arizona. W. W. Price.
 20-21. Juv. ♀ P. Chiricahua Mts., Arizona. W. W. Price.

a. Lepus arizonæ pinetis (Allen).

- Lepus sylvaticus pinetis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 348.
Lepus grangeri pinetis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 285. Zoöl. Ser.
Lepus arizonæ pinetis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 350. Zoöl. Ser.

PINE WOOD COTTON-TAIL.

- 1-2. Adult ♂ P. Boulder, Colorado. R. T. Young.

b. Lepus arizonæ major Mearns.

- Lepus arizonæ major* Mearns, Proc. U. S. Nat. Mus., 1896, p. 557. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 286. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 350. Zoöl. Ser.

GREATER DESERT COTTON-TAIL.

1. Adult ♂ Exch. Fort Verde, Yavapai County, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

2. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

c. *Lepus arizonæ minor* Mearns.

Lepus arizonæ minor Mearns, Proc. U. S. Nat. Mus., 1896, p. 557.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 286.
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 350.
 Zoöl. Ser.

LESSER DESERT COTTON-TAIL.

1. Adult ♀ Exch. Colorado Springs, Colorado. Am. Mus. Nat. Hist. N. Y. C. A. Smith.

646. *Lepus graysoni* Allen.

Lepus graysoni Allen, N. Am. Rod., 1777, p. 347. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 426. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 351. Zoöl. Ser.

GRAYSON'S COTTON-TAIL.

- 1-2. Adult ♀ P. Tres Marias Islands, Mexico. A. Forrer.

Subgenus C. *Microlagus*. Short-tailed Hares.

647. *Lepus bachmani* Waterhouse.

Lepus bachmani Waterh., Proc. Zoöl. Soc., 1838, p. 103. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 429. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 352. Zoöl. Ser.
Lepus trowbridgii Baird, Journ. Acad. Nat. Scien. Phil., 1855, p. 333.

Lepus floridanus bachmani Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 281. Zoöl. Ser.

BACHMAN'S COTTON-TAIL.

1. Adult ♂ P. Portola, California. W. W. Price.
2. Adult ♀ P. Portola, California. W. W. Price.
- 3-4. Adult ♂ P. Alum Rock Park, California. W. W. Price.
- 5-6. Adult ♀ P. Alum Rock Park, California. W. W. Price.
7. Adult ♂ P. Mt. Hamilton, California. W. W. Price.
- 8-9. Adult ♀ P. Mt. Hamilton, California. W. W. Price.
10. Juv. ♀ P. Mt. Hamilton, California. W. W. Price.
11. Adult ♂ P. Snow Mts., California. W. W. Price.
12. Adult ♀ P. Carmel River, California. W. W. Price.
- 13-14. Adult ♂ Coll. Nicasio, California. E. Heller.

- 15. Adult ♀ Coll. Nicasio, California. E. Heller.
- 16-17. Adult ♂ Coll. Petaluma, California. E. Heller.
- 18. Adult ♂ Coll. Mendocino, California. E. Heller.
- 19. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 20-21. Adult ♂ Coll. Eureka, California. E. Heller.
- 22. Adult ♀ Coll. Eureka, California. E. Heller.
- 23. Adult ♂ P. Corpus Christi, Texas. G. K. Cherrie.
- 24. Adult ♀ P. Corpus Christi, Texas. G. K. Cherrie.
- 25-26. Juv. ♀ P. Big Trees, Santa Cruz, California. C. K. Worthen.

a. Lepus bachmani ubericolor Miller.

Lepus bachmani ubericolor Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 383. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 352. Zoöl. Ser.

Lepus floridanus ubericolor Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 282. Zoöl. Ser.

RICH-COLORED COTTON-TAIL.

- 1-2. Adult ♂ Coll. Requa, California. E. Heller.
- 3-6. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 7. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 8-10. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 11-14. Adult ♀ Coll. Florence, Oregon. E. Heller.
- 15. Adult ♂ Topotype. Coll. Beaverton, Oregon. E. Heller.
- 16-19. Adult ♀ Topotypes. Coll. Beaverton, Oregon. E. Heller.

648. Lepus cinerascens Allen.

Lepus cinerascens Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 159. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 287, pl. xxvii. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 429, fig. 82. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 352. Zoöl. Ser.

ASH-COLORED COTTON-TAIL:

- 1-2. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 3-7. Adult ♀ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 8. Adult ♂ Coll. St. Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9. Adult ♀ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 10. Adult ♀ Coll. Salado River Cañon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

11-13. Adult ♂ Coll. San Quentin, Lower California, Mexico.
E. Heller.

14-18. Adult ♀ Coll. San Quentin, Lower California, Mexico.
E. Heller.

19. Juv. ♂ P. San Antonio, California. W. W. Price.

20-22. Juv. ♀ P. San Antonio, California. W. W. Price.

649. *Lepus peninsularis* Allen.

Lepus peninsularis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898,
p. 144. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M.
Pub., IV, Pt. 1, 1904, p. 430. Zool. Ser. *Id.* Check-L. Mamm.
N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353.
Zool. Ser.

LOWER CALIFORNIA COTTON-TAIL.

1. Adult ♀ P. La Paz, Lower California, Mexico. A. Forrer.

Subgenus D. *Oryctolagus*.

650. *Lepus cuniculus* Linnæus.

Lepus cuniculus Linn., Syst. Nat., 1, 1766, p. 77. Waterhouse,
Mamm., II, 1848, p. 64.

EUROPEAN RABBIT.

1. Adult ♀ P. Brunswick, Germany. J. A. Loring.

Subgenus E. *Macrotolagus*. Jack Rabbits.

651. *Lepus alleni* Mearns.

Lepus alleni Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p.

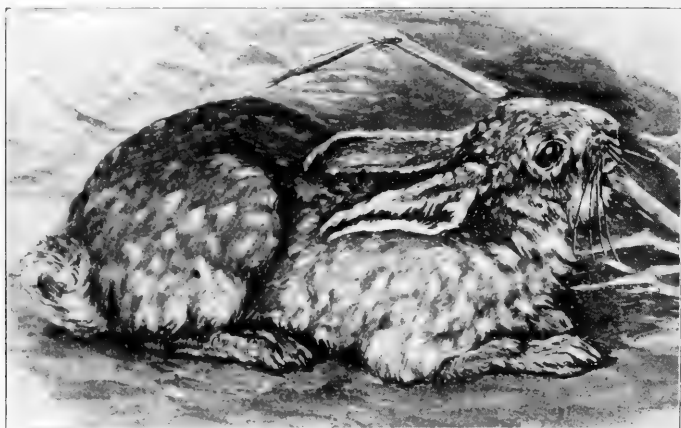


FIG. XL. *LEPUS ALLENI*. ALLEN'S JACK RABBIT.

294. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 288. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 433, fig. LVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353. Zoöl. Ser.

ALLEN'S JACK RABBIT.

- 1-3. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
4-6. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
7-8. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
9-10. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

652. *Lepus callotis* Wagler.

- Lepus callotis* Wagl., Nat. Syst. Amph., 1830, p. 23. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 288. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 431. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353. Zoöl. Ser.
Lepus nigricaudatus Bennett, Proc. Zoöl. Soc., 1833, p. 41.
Lepus mexicanus Rich., 6th Rep. Brit. Assoc., 1837, p. 150.

BEAUTIFUL-EARED JACK RABBIT.

1. Adult — Coll. Puebla, State of Puebla, Mexico. F. E. Lutz.
a. *Lepus callotis flavigularis* (Wagner).
Lepus flavigularis Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 107.
Lepus callotis flavigularis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353, Syn. *L. callotis*; Appendix, p. 543. Zoöl. Ser.

YELLOW-THROATED JACK RABBIT.

- 1-10. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
11-13. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

653. *Lepus merriami* Mearns.

- Lepus texianus*! Aud. & Bachm., Quad. N. Am., III, 1853, p. 156, pl. cxxxiii. (nec Waterhouse.)
Lepus merriami Mearns, Proc. U. S. Nat. Mus., 1896, p. 444. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 289, pl. xxvii. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 432. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 354. Zoöl. Ser.

MERRIAM'S JACK RABBIT.

- 1-3. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
4. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

654. *Lepus melanotis* Mearns.

Lepus melanotis Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 297. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 290. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 355. Zoöl. Ser.

BLACK-EARED JACK RABBIT.

1. Adult ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
 2. Adult ♂ Exch. Long Island, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
 3. Adult ♂ P. Lawrence, Kansas. J. Rowley.
 4. Adult ♀ P. Lawrence, Kansas. J. Rowley.
- a. *Lepus texensis eremicus* (Allen).

Lepus texianus! *eremicus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 347.

Lepus texensis eremicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 291. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 435, pl. xli. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 355. Zoöl. Ser.

DESERT JACK RABBIT.

1. Adult ♂ P. Fort Lowell, Arizona. Loye Miller.
 2. Adult ♀ P. Fort Lowell, Arizona. Loye Miller.
 3. Adult ♂ Paratype. P. Fairbank, Arizona. W. W. Price.
 4. Adult ♀ Paratype. P. Fairbank, Arizona. W. W. Price.
 5. Adult ♂ Exch. Neutral Strip, Indian Territory. Am. Mus. Nat. Hist. N. Y. Richardson & Rowley.
- b. *Lepus texensis deserticola* (Mearns).

Lepus texianus! *deserticola* Mearns, Proc. U. S. Nat. Mus., 1896, p. 564.

Lepus texensis deserticola Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 291. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 437. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 356. Zoöl. Ser.

WESTERN DESERT JACK RABBIT.

1. Adult ♂ Coll. Phoenix, Arizona. G. F. Breninger.

2. Adult ♀ Coll. Phoenix, Arizona. G. F. Breninger.
3. Adult ♂ Coll. Whitewater, California. E. Heller.
4. Adult ♂ Coll. Copper City, California. E. Heller.
5. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.
6. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
- 7-8. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.
9. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
10. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.

655. *Lepus californicus* Gray.

Lepus californica Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 586.

Lepus californicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 291. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 437. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 357. Zoöl. Ser.

CALIFORNIA JACK RABBIT.

1. Adult ♂ Exch. Laguna Mts., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 2-3. Juv. ♂ P. Snow Mountains, California. W. W. Price.
- 4-5. Adult ♂ P. Elsinore, California. J. Rowley.
- 6-8. Adult ♀ P. Elsinore, California. J. Rowley.
9. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.
- 10-11. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.
12. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
14. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
15. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 16-17. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
18. Adult — P. Point Reyes, California. Ward's Nat. Scien. Establ., Rochester, N. Y.
19. Juv. ♂ P. Folsom City, California. A. Forrer.

a. *Lepus californicus xanti* Thomas.

Lepus californicus xanti Thomas, Ann. Mag. Nat. Hist., 7th Ser., I, 1898, p. 45. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 438. Zoöl. Ser. *Id.* Check-L.

Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 357. Zool. Ser.

LOWER CALIFORNIA JACK RABBIT.

1. Adult ♂ P. La Paz, Lower California, Mexico. A. Forrer.
2. Adult ♀ P. La Paz, Lower California, Mexico. A. Forrer.

656. *Lepus martirensis* Stowell.

Lepus martirensis Stowell, Proc. Calif. Acad. Scien., 2d Ser., v, 1895, p. 51. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 439. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 358. Zool. Ser.

SAN PEDRO MARTIR JACK RABBIT.

- 1-2. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 3-4. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
5. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.

Subgenus F. *Lepus*. Changeable Hares.

657. *Lepus europaeus* Pallas.

Lepus europaeus Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 30.
Lepus timidus Schreb., Säugth., IV, 1792, pl. 233. (nec Linn.)

EUROPEAN HARE.

1. Adult — P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Switzerland. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♂ P. Brunswick, Germany. J. A. Loring.
4. Adult ♀ P. Brunswick, Germany. J. A. Loring.
- 5-6. Adult — P. Brunswick, Germany. J. A. Loring.
- 7-8. Adult — P. Europe. C. K. Worthern.

658. *Lepus somalensis* Heuglin.

Lepus somalensis Heugl., Nov. Act. Acad. Cæs. Leop.-Carol., XXVIII, 1861, p. 5.

SOMALI HARE.

1. Adult — Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
2. Juv. — Coll. Silo Plain, Haud, Somaliland E. Africa. D. G. Elliot.

659. *Lepus arcticus* Ross.

Lepus arcticus Ross, Voy. Arct. Reg., II, 1819, Append. IV, p. 151.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 270.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 358. Zoöl. Ser.

Lepus glacialis Leach, in Ross's Voy. Arct. Reg., II, 1819, Append. IV, p. 170.

Lepus timidus var. *arcticus* Allen, Mon. N. Am. Rod., 1877, p. 288.

POLAR HARE.

1-2. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

3. Adult ♂ P. Pine Creek, Alberta, Canada. G. F. Dippie.

4. Adult ♀ P. Carmen, Manitoba, Canada. G. F. Dippie.

660. *Lepus grœnlandicus* Rhoads.

Lepus grœnlandicus Rhoads, Amer. Nat., xxx, 1896, p. 236. El-

liot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 271.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 359. Zoöl. Ser.

GREENLAND HARE.

1-2. Adult ♂ P. Bache Peninsula, Greenland. S. Warmbath.

3-4. Adult ♀ P. Bache Peninsula, Greenland. S. Warmbath.

661. *Lepus americanus* Erxleben.

Lepus americanus Erxl., Syst. Reg. Anim., I, 1777, p. 330. Elliot,

Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 273. Zoöl.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 360. Zoöl. Ser.

Lepus hudsonius Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 30.

Lepus nanus Schreb., Säugth., IV, 1792, p. 881, pl. 234B.

Lepus borealis Schinz, Synop., II, 1845, p. 286.

Lepus campestris Hayden, Amer. Nat., III, 1869, p. 115. (Part.)

AMERICAN HARE.

1. Adult ♂ Exch. Sherburne, Vermont. Am. Mus. Nat. Hist. N. Y.

2. Adult ♂ P. Orillia, Ontario, Canada. G. F. Dippie.

3. Adult ♀ Exch. Andover, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.

4. Adult ♂ Exch. Andover, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. A. Lockwood.

5. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.

6. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

7. Adult ♂ Coll. Park Siding, Michigan. C. Brandler.

8. Adult ♀ Coll. Park Siding, Michigan. C. Brandler.

9. Adult — P. Wyoming. Ward's Nat. Scien. Establish., Rochester, N. Y.

a. Lepus americanus phænotus Allen.

Lepus americanus phænotus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 11. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 273. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 360. Zoöl. Ser.

WESTERN HARE.

1. Adult ♂ P. Minnesota.

b. Lepus americanus bairdi (Hayden).

Lepus bairdii Hayden, Amer. Nat., III, 1869, p. 115.

Lepus americanus bairdi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 274. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 361.

BAIRD'S HARE.

1. Adult ♂ P. Eagle County, Montana. E. S. Thompson.
2. Adult ♂ P. Silver Lake Mine, Boulder County, Colorado. R. T. Young.
- 3-4. Adult ♀ P. Silver Lake Mine, Boulder County, Colorado. R. T. Young.

c. Lepus americanus washingtoni (Baird).

Lepus washingtonii Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 333, pl. 15.

Lepus americanus washingtoni Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 274. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 361. Zoöl. Ser.

WASHINGTON HARE.

1. Adult — Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
2. Adult — Coll. Boulder Creek, Elwah River, Clallam County, Washington. D. G. Elliot.
- 3-6. Juv. ♀ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
7. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 8-10. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
11. Juv. ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

662. *Lepus campestris* Bachman.

Lepus campestris Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 349. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 277. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 362. Zoöl. Ser.

PLAINS HARE.

1. Adult ♀ Coll. Braddock, North Dakota. W. E. Snyder.
2. Adult ♀ P. Gardiner, Montana. E. S. Thompson.
- 3-4. Adult ♀ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
5. Adult — P. "Kansas." Ward's Nat. Scien. Establish., Rochester, N. Y.

a. Lepus campestris townsendi (Bachman).

Lepus townsendi Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 90.

Lepus campestris townsendi Merr., Proc. Biol. Soc. Wash., XVII, 1904, p. 132. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 363. Zoöl. Ser.

TOWNSEND'S HARE.

1. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.
- 2-4. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.

b. Lepus campestris sierræ Merriam.

Lepus campestris sierræ Merr., Proc. Biol. Soc. Wash., XVII, 1904, p. 132. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 363. Zoöl. Ser.

SIERRA HARE.

1. Adult ♀ Coll. Mt. Whitney, California. E. Heller.

Order VII. **Carnivora. Carnivores.**

Family I. **Felidæ. Cats.**

Genus 185. **Felis.**

Felis Linn., Syst. Nat., 1, 1758, p. 41; 1, 1766, p. 60. Type *Felis catus* Linnæus.

Linx (sic) Frisch, Das Nat.-Syst. vierfüss. Thiere, in Tabellen, 12, Tab. Gen., 1775.

Lynx Kerr, Anim. Kingd., Syst. Catal., Mamm., 1, 1792, pp. 41, 155.

Lynceus Gray, Lond. Med. Repos., xv, 1821, p. 302.

Puma Jard., Nat. Libr., Mamm., 11, 1834, pp. 266.

Lynchus Jard., Nat. Libr., Mamm., 11, 1834, pp. 274, 275.

Leopardus Gray, Ann. Mag. Nat. Hist., x, 1842, p. 260. (nec 1867.)

Herpailurus Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 385.

Jaguaris Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

Lynchailurus Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

Noctifelis Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

Oncifelis Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

Leopardus Gray, Proc. Zoöl. Soc., 1867, p. 263. (nec 1842.)

Margay Gray, Proc. Zoöl. Soc., 1867, p. 271.

Pardalis Gray, Proc. Zoöl. Soc., 1867, p. 272.

Cervaria Gray, Proc. Zoöl. Soc., 1867, p. 276.

Subgenus A. *Leopardus*. Tigers, Jaguars, etc.

663. **Felis tigris** Linnæus.

Felis tigris Linn., Syst. Nat., 1, 1758, p. 41; 1, 1766, p. 61. Elliot, Mon. Felidæ, 1883, pl. III.

Felis tigris var. *a mongolica* Less., Nouv. Tab. Regn. Anim., 1842, p. 50.

Felis tigris var. *b nigra* Less., Nouv. Tab. Regn. Anim., 1842, p. 50.

- Felis tigris* var. *c alba* Less., Nouv. Tab. Regn. Anim., 1842, p. 50.
Tigris regalis Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40.
Tigris striatus Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 386.
Tigris regalis alba Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 448.
Tigris regalis hybrida Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 450.
Tigris sondaica Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 454.
Tigris longipilis Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 455.

THE TIGER.

- 1-2. Adult ♂ & ♀ P. "Amurland." Ward's Nat. Scien. Establ., Rochester, N. Y.

664. *Felis uncia* Schreber.

- Felis uncia* Schreb., Säugth., III, 1778, p. 386, pl. c. Elliot, Mon. Felidæ, 1883, pl. iv, text.
Felis pardus Pall., Zoog. Rosso-Asiat., I, 1811, p. 17. (nec Linn.)
Felis irbis Ehrenb., Ann. Scien. Nat., XXI, 1830, p. 394.
Felis uncioides Hodgs., Horsf. Ann. Nat. Hist., XVI, 1855, p. 105.
Uncia irbis Gray, Proc. Zool. Soc., 1867, p. 262, fig. 1.

SNOW LEOPARD.

1. Adult — P. "Tibet." Ward's Nat. Scien. Establ., Rochester, N. Y.

665. *Felis pardus* Linnæus.

- Felis pardus* Linn., Syst. Nat., I, 1758, p. 41; I, 1766, p. 61. Elliot, Mon. Felidæ, 1883, pls. vi, vii.
Felis leopardus Erxleb., Syst. Regn. Anim., 1777, p. 509, sp. 5.
Felis panthera Pall., Zoog. Rosso-Asiat., I, 1811, p. 18.
Felis melas Less., Mon. Mamm., 1827, p. 188.
Felis antiquorum Fisch., Syn. Mamm., 1829, p. 566.
Leopardus varius Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40, sp. a-h.
Felis poecilura Valenciën., Compt. Rend., XLII, 1856, p. 1036.
Leopardus japonensis Gray, Proc. Zool. Soc., 1862, p. 262, pl. XXXIII; 1867, p. 264.
Leopardus perniger Hodgs., Cat. Mamm. & Birds Nepal., 2d ed., 1863, p. 3.
Felis fontanieri A. Milne-Edw., Ann. Scien. Nat., Sér. 5, VIII, 1867, p. 375.

Leopardus pardus Gray, Proc. Zool. Soc., 1867, p. 263.

Leopardus chinensis Gray, Proc. Zool. Soc., 1867, p. 264, fig. 2.
(nec Gray, 1842.)

Panthera nimr Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868,
p. 461.

Panthera nimr niger Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,
1868, p. 466.

Panthera antiquorum Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,
1868, p. 468.

Panthera leopardus Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,
1868, pp. 473, 478.

Panthera variegata Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,
1868, p. 477.

LEOPARD.

1. Adult ♀ Coll. Hersi Barri, Ogaden, East Africa. D. G. Elliot.
2. Adult ♂ Melanistic form. P. Java. Ward's Nat. Scien. Establ.,
Rochester, N. Y.

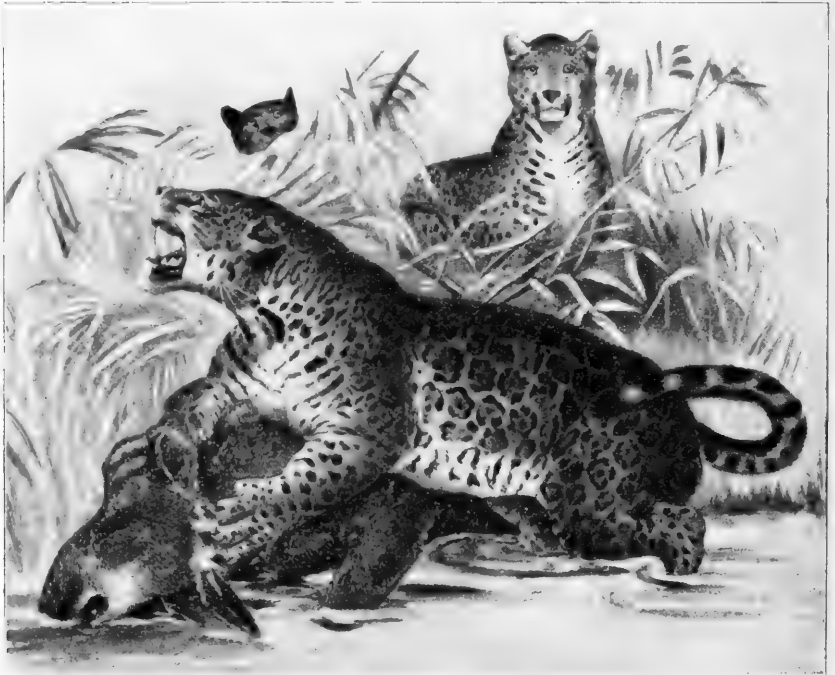


FIG. XLI. FELIS ONCA. JAGUAR.

1. *Felis onca*; 2. *Felis o. hernandezii*.

a. *Felis onca hernandezi* (Gray).

Leopardus hernandezii Gray, Proc. Zool. Soc., 1857, p. 278.

Felis onca Elliot, Mon. Felidæ, 1883, pl. v, rear figure. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 294. Zool. Ser. (Part.)

Felis onca hernandezi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 446. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 365. Zool. Ser.

HERNANDEZ'S JAGUAR.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

666. *Felis pardalis* Linnæus.

Felis pardalis Linn., Syst. Nat., I, 1758, p. 42; I, 1766, p. 62. Elliot, Mon. Felidæ, 1883, pl. XVIII. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 294. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 447. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 366. Zool. Ser.

OCELOT. *Manigordo* in Costa Rica.

1. Adult — Coll. Sanborn, State of Vera Cruz, Mexico. S. E. Meek.
2. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
3. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

667. *Felis catenata* H. Smith.

Felis catenata H. Smith, Griff. Anim. Kingd., v, 1827, p. 169.

STRIPED OCELOT.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

668. *Felis tristis* A. Milne-Edwards.

Felis tristis A. Milne-Edw., Research. Mamm., 1871, p. 223, pl. 31d. Elliot, Mon. Felidæ, 1883, pl. XXIII.

CHINESE CAT.

1. Adult — Exch. Tsekou, Tibet. Mus. Hist. Nat. Paris. Soubié.

669. *Felis scripta* A. Milne-Edwards.

Felis scripta A. Milne-Edwards, Nouv. Archiv. Mus. Hist. Nat. Paris, VII, Bull., 1871, p. 92. Elliot, Mon. Felidæ, 1883, pl. XXIV.

TIBETAN CAT.

1. Adult — Exch. Ta-tsien-lou, Stezechuan, China. Mus. Hist. Nat. Paris. Biet.

670. *Felis tigrina* Erxleben.

Felis tigrina Erxl., Syst. Regn. Anim., 1, 1777, p. 517. Elliot, Mon. Felidæ, 1883, pl. xix. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. II, 1904, p. 449. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 367. Zool. Ser.

Felis mitis F. Cuv., Hist. Nat. Mamm., II, 1820, pl. 137.

Felis brasiliensis F. Cuv., Hist. Nat. Mamm., II, 1820, pl. 139.

Felis macroura Max., Beitr. Naturg. Bras., II, 1826, p. 371.

Felis chati Griff., Anim. Kingd., II, 1827, p. 479.

Felis elegans Less., Cent. Zool., 1830, p. 69, pl. 21.

THE MARGAY. *Cauzel* in Costa Rica.

1. Adult — P. "Rio Janeiro," South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

671. *Felis javanensis* Desmarest.

Felis javanensis Desm., Nouv. Dict. Hist. Nat., VI, 1816, p. 115.

Elliot, Mon. Felidæ, 1883, pl. xxviii.

Felis sumatrana Horsf., Zool. Research., 1824, pl.

Felis undata Less., Man. Mamm., 1827, p. 188.

Felis minuta Temm., Mon. Mamm., I, 1827, p. 130.

Felis chinensis Gray, Ann. Mag. Nat. Hist., 1837, p. 577.

Leopardus javanensis Gray, List Spec. Mamm. Brit. Mus., 1843, p. 43.

Leopardus chinensis Gray, List Spec. Mamm. Brit. Mus., 1843, p. 43.

Leopardus reevesi Gray, List Spec. Mamm. Brit. Mus., 1843, p. 43.

Felis (Prionailurus) minuta Severtz., Rev. Mag. Zool., 2me Sér., 1858, p. 387.

Felis bengalensis var. Blyth, Proc. Zool. Soc., 1863, p. 184.

Felis servalina Gray, Proc. Zool. Soc., 1867, p. 401. (nec Ogilby.)

Panthera sumatrana Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 491.

Panthera javanensis Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 493.

Panthera unclata Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 496.

Panthera smithi Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 499.

Panthera augulifera Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 500.

Panthera chinensis Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 509.

Felis herschelii Gray, Cat. Carn. Pachyd. & Edent. Mamm. Brit. Mus., 1869, p. 68.

LITTLE RED-SPOTTED CAT. *Tamaral*, Visayan name.

1. Adult — P. Lawas Mountains, Borneo. A. Everett.

2. Adult — P. Kina Balu, Borneo. A. Everett.

672. *Felis serval* Erxleben.

Felis serval Erxl., Regn. Anim., 1777, p. 523. Elliot, Mon. Felidæ, 1883, pl. xxvi.

Felis capensis Gmel., Syst. Nat., I, 1788, p. 81.

Felis galeopardus Desm., Mamm., 1820, p. 227.

Chaus servalina Gerv., Blainv. Osteol., t. 16.

Felis senegalensis Less., Mag. Zool., 1839, t. 10.

Felis servalina Ogilby, Proc. Zool. Soc., 1839, p. 4.

Leopardus serval Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40.

Felis leptailurus serval Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 389.

Galeopardus capensis Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869, p. 649.

Galeopardus serval Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869, p. 651.

Galeopardus senegalensis Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869, p. 657.

THE SERVAL.

1. Adult — No record.

673. *Felis catus* Linnæus.

Felis catus Linn., Syst. Nat., I, 1758, p. 42; I, 1766, p. 62. Elliot, Mon. Felidæ, 1883, pl. xxx.

Felis sylvestris Schreb., Säugth., III, 1778, p. 397, Tab. cvi.

WILD CAT.

1-2. Adult ♂ P. Bunarkaig, Aberdeenshire, Scotland. Henderson & Co.

3. Adult ♀ P. Bunarkaig, Aberdeenshire, Scotland. Henderson & Co.

Subgenus B. *Felis*. Lions, Pumas.

674. *Felis leo* Linnæus.

Felis leo Linn., Syst. Nat., I, 1758, p. 41; I, 1766, p. 60. Elliot, Mon. Felidæ, 1883, pl. 1.

- Felis barbarus* var. α Fisch., Syn. Mamm., I, 1829, p. 197.
Felis senegalensis var. β Fisch., Syn. Mamm., I, 1829, p. 197.
Felis persicus var. γ Fisch., Syn. Mamm., I, 1829, p. 197.
Felis leo goojratensis Smee, Trans. Zool. Soc., I, 1833, p. 165, pl. 24.
Leo gambianus Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40.
Tigris leo Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 388.
Leo nobilis Gray, Proc. Zool. Soc., 1867, p. 263.
Leo capensis Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 432.
Leo guzeratensis Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 443.

LION.

1. Adult ♂ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.
 2. Juv. ♀ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.
 3. Adult ♂ P. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.
 4. Adult ♀ P. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.
 5. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.
- a. *Felis concolor oregonensis* (Rafinesque).
Felix! oregonensis Rafin., Atlantic Journal, I, 1832, p. 62.
Felis hippolestes Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 219.
Felis hippolestes olympus Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 220.
Felis hippolestes aztecus Merr., Proc. Wash. Acad. Scien., III, 1901, p. 592.
? *Felis aztecus browni* Merr., Proc. Biol. Soc. Wash., XVI, 1903, p. 73.
Felis concolor oregonensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 294. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 454, pls. XLIV, XLV. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 369. Zool. Ser.

NORTHWESTERN PUMA.

1. Adult ♂ P. Colorado. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Colorado. Ward's Nat. Scien. Establ., Rochester, N. Y.

- 3-4. Juv. — P. Colorado. Ward's Nat. Scien. Establ., Rochester, N. Y.
 5. Adult ♀ P. Okanagan Valley, British Columbia, Canada. G. F. Dippie.
 6. Adult — Pres. Montana. A. B. Shubert.
 7-11. Adult — Pres. Colonia Garcia, State of Chihuahua, Mexico. V. S. Kennedy.
 12. Adult — P. No history. C. E. Akeley.
 13. Adult ♂ P. Colville-Ind. Reserv., Washington. A. B. Shubert.

675. *Felis cougar* Kerr.

- Felis cougar* Kerr, Anim. Kingd., 1792, p. 151. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 369. Zoöl. Ser.
Felis pennsylvanica Link, Beitr. Naturg., II, 1795, p. 90.
Felis concolor floridana Cory, Hunt. & Fish. Florida, 1896, p. 109.
Felis coryi Bangs, Proc. Biol. Soc. Wash., XIII, 1899, p. 15.
Felis concolor Auct., Eastern North America.

EASTERN PUMA.

1. Adult — Pres. Hapata Flats, North-East Lake, Okeechobee, Florida. C. B. Cory.

676. *Felis jaguarondi* Fischer.

- Felis jaguarondi* Fisch., Zoogn., 1814, p. 228. Elliot, Mon. Felidæ, 1883, pl. XIII. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 295. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 451, fig. 83. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 367. Zoöl. Ser.

JAGUARONDI. *Leon monero*, *Leon miquero* in Costa Rica.

1. Adult — P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.
 2. Adult ♀ P. Cameron County, Texas. C. K. Worthern.
a. Felis eyra apache (Mearns).
Felis eyra Baird, Rep. U. S. & Mex. Bound. Surv., Mamm., 1859, p. 10, pl. II, fig. 1. (nec Fischer.)
Felis apache Mearns, Proc. Biol. Soc. Wash., XIV, 1901, p. 150.
Felis eyra apache Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 453. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 368. Zoöl. Ser.

TAMAULIPAS EYRA. *Apache*, *Onza* in Mexico.

1. Adult — Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

677. *Felis badia* Gray.

Felis badia Gray, Proc. Zool. Soc., 1874, p. 322, pl. 49. Elliot, Mon. Felidæ, 1883, pl. xv.

BORNEAN RED CAT.

1. Adult — Melanistic form. P. Gunong Mulu, Borneo. E. Gerard & Sons.

Subgenus C. *Lynx*. Lynxes.

678. *Felis canadensis* (Kerr).

Lynx canadensis Kerr, Anim. Kingd., 1792, p. 32, desc. p. 157.

Felis canadensis Elliot, Mon. Felidæ, 1883, pl. xxxvii. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 295. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 370. Zool. Ser.

CANADA LYNX.

1. Adult — P. Ontario, Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Felis canadensis mollipilosa (Stone).

Lynx canadensis mollipilosa Stone, Proc. Acad. Nat. Scien. Phil., 1900, p. 48.

Felis canadensis mollipilosa Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 295. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 370. Zool. Ser.

SOFT-FURRED LYNX.

- 1-5. Adult — P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.
6. Juv. — P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.

Subgenus D. *Cervaria*.

679. *Felis rufa* Gldenstaedt.

Felis ruffa (sic) Gldenst., Nov. Comm. Acad. Imp. Scien. St. Ptersb., XX, 1776, p. 484.

Felis rufa Elliot, Mon. Felidæ, 1883, pl. xl. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 296. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 370. Zool. Ser.

RED LYNX, WILD CAT.

1. Adult — P. South Carolina. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Felis rufa fasciata* (Rafinesque).

Lynx fasciatus Rafin., Am. Month. Mag., II, 1817, p. 46.

Felis rufa fasciata Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 297. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 371. Zoöl. Ser.

BARRED LYNX.

1. Adult ♂ Coll. Barnes's Creek, Clallam County, Washington. D. G. Elliot.

b. *Felis rufa baileyi* (Merriam).

Lynx baileyi Merr., N. Am. Faun., No. 3, 1890, p. 79.

Felis rufa baileyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 297. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 459, figs. 84, LX. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 372. Zoöl. Ser.

BAILEY'S LYNX.

1-2. Adult — Exch. ———? Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

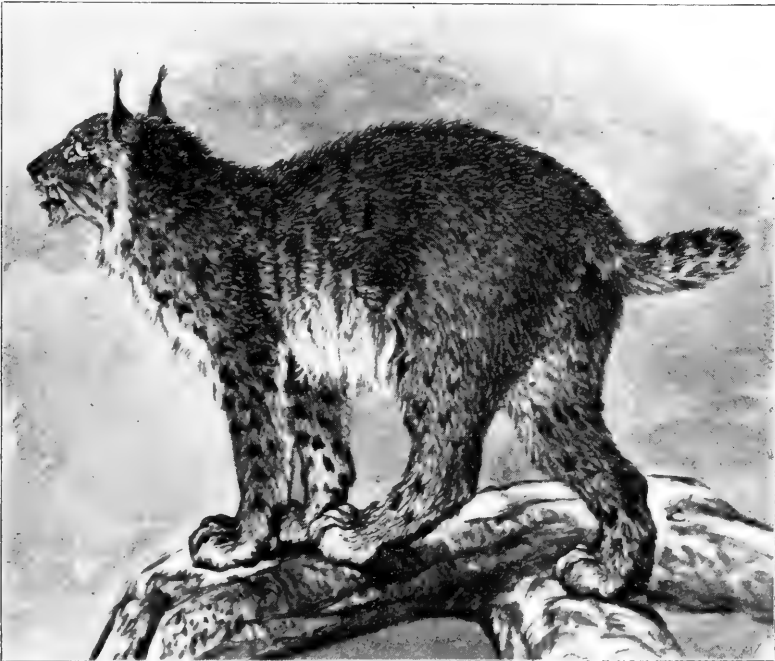


FIG. XLII. FELIS R. BAILEYI. BAILEY'S LYNX.

- 3-4. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
5. Adult — Coll. Huachuca Plains, Arizona. G. F. Breninger.
- 6-9. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico. V. S. Kennedy.

c. *Felis rufa californica* (Mearns).

Lynx rufus californicus Mearns, Proc. U. S. Nat. Mus., xx, 1897, p. 458.

Felis rufa californica Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 298. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 458. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 372. Zoöl. Ser.

CALIFORNIA LYNX.

1. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
2. Juv. ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.

d. *Felis rufa floridana* (Rafinesque).

Lynx floridanus Rafin., Am. Month. Mag., II, 1817, p. 46.

Felis rufa floridana Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 299. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 372. Zoöl. Ser.

FLORIDA LYNX.

1. Adult — Pres. Florida. C. B. Cory.

Genus 186. **Acinonyx.**

Acinonyx Brookes, Cat. Anat. & Zoöl. Mus. Joshua Brookes, Lond., 1828, p. 33. Type *Acinonyx venator* Brookes = *Felis jubata* Erxleben.

Cynailurus Wagl., Nat. Syst. Amphib., 1830, p. 30.

Guepardus Duvern., L'Inst. Paris, II, No. 51, 1834, p. 145.

Cynofelis Less., Nouv. Tabl. Règn. Anim., 1842, p. 48.

680. **Acinonyx jubatus** (Erxleben).

Felis jubata Erxl., Syst. Reg. Anim., 1777, p. 510.

Cynailurus jubatus Wagl., Nat. Syst. Amphib., 1830, p. 30. Elliot, Mon. Felidæ, 1883, pl. XLIII.

Felis guttata Less., Compl. Buff., I, 1838, p. 409.

Cynofelis jubata Less., Nouv. Tab. Règn. Anim., 1842, p. 49.

Felis megabalia Heugl., Zeit. Ges. f. Erdkunde, Berlin, III, 1868, p. 53.

Cynailurus venaticus Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869.

Felis lanea Sclat., Proc. Zool. Soc., 1877, p. 532, pl. 55.

CHEETAH, HUNTING LEOPARD.

1. Adult ♂ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.
- 3-6. Juv. — Coll. Adadleh, Somaliland, East Africa. D. G. Elliot.

Family II. **Viverridæ. Mongooses, Civets.**

Subfamily I. **Cryptoproctinæ.**

Genus 187. **Cryptoprocta.**

Cryptoprocta Bennett, Proc. Zool. Soc., 1832, p. 46. Type *Cryptoprocta ferox* Bennett.

681. **Cryptoprocta ferox** Bennett.

Cryptoprocta ferox Bennett, Proc. Zool. Soc., 1832, p. 46.

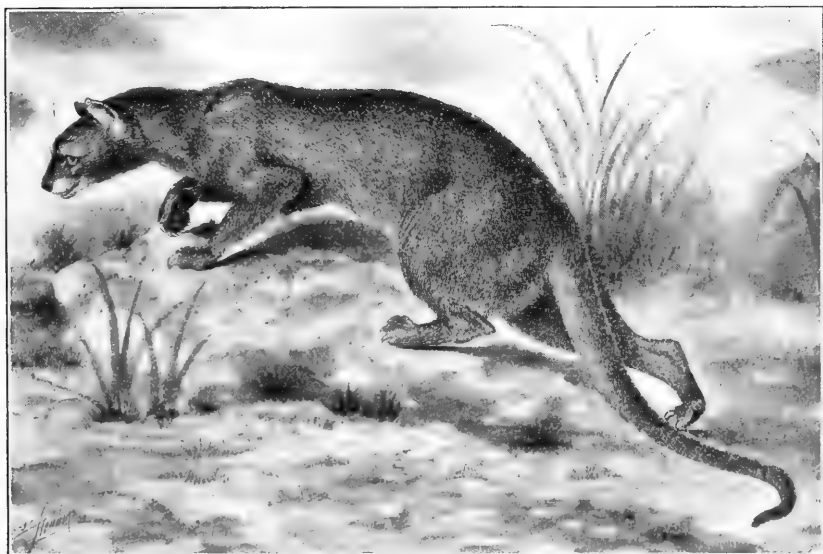


FIG. XLIII. CRYPTOPROCTA FEROX. THE FOUSSA.

Cryptoprocta typicus A. Smith, S. Afr. Quart. Jour., II, p. 134.
THE FOUSSA.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 188. **Viverricula.**

Viverricula Hodg., Ann. Nat. Hist., I, 1838, p. 152. Type *Viverra indica* Geoffroy = *Viverra malaccensis* Gmelin.

682. **Viverricula malaccensis** (Gmelin).

Viverra malaccensis Gmel., Syst. Nat., I, 1788, p. 92.

Viverra leveriana Shaw, Mus. Lever., II, 1796, p. 19.

Viverra indica Desm., Nouv. Dict. Hist. Nat., VII, 1817, p. 170.

Viverra bengalensis Gray, Illust. Ind. Zool., I, 1832, pl. IV.

Viverra pallida Gray, Proc. Zool. Soc., 1832, p. 63.

Viverra rasse Horsf., Zool. Research., 1821, pl.

MALACCA WEASEL.

1. Adult — P. Madagascar. E. Gerrard & Sons.

2. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Genus 189. **Genetta.**

Genetta Oken, Lehrb. Naturg., Zool., 3ter Theil, 2te Abth., 1816, p. 1010. Type *Viverra genetta* Linnæus.

683. **Genetta senegalensis** (Fischer).

Viverra senegalensis Fisch., Syn. Mamm., 1829, p. 170.

Genetta senegalensis Gray, Proc. Zool. Soc., 1832, p. 63. *Id.* Cat.

Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 50.

SENEGAL GENET.

1. Juv. ♀ Coll. Higileh, Ogaden, East Africa. D. G. Elliot.

684. **Genetta tigrina** (Schreber).

Viverra tigrina Schreb., Säugth., III, 1778, p. 425, pl. CXV.

Genetta abyssinica Rüpp., Neu. Wirbelth. Abyss., 1835, p. 33.

TIGRINE GENET.

1. Adult ♀ P. Upper Shire River, British Central Africa. P. Rendall.

685. Genetta aubryana Pucheran.

Genetta aubryana Puch., Rev. Zool., III, 1855, p. 154.

AUBRY'S GENETTA.

1. Adult — P. Batuga, Cameroons, W. Africa. C. W. McCleary.

Genus 190. **Prionodon.**

***Prionodon** Horsf., Zoöl. Res. in Java, No. 5, 1824. Type *Felis gracilis* Horsfield = *Viverra linsang* Hardwicke.

'*Priodonte*' F. Cuvier, Hist. Nat. Mamm., IV, 1822, livr. xxviii, p. 2.

Priodontes F. Cuvier, in Less. Man. Mamm., 1827, p. 309.

Linsang Müll., Verhand. Natur. Geschied. Nederl. Besitt., Leiden, I, 1839, p.

686. Prionodon linsang (Hardwicke).

Viverra linsang Hardw., Trans. Linn. Soc., XIII, 1812, p. 256, pl. xxiv.

Viverra gracilis Desm., Mamm., 1820, p. 539.

Felis gracilis Horsf., Zoöl. Res. in Java, No. 1, 1824.

Viverra hardwickii Less., Mon. Mamm., 1827, p. 172.

Paradoxurus prehensilis Schinz, Cuv. Thierr., IV, 1821, p. 349. (nec Blainv.)

LINSANG.

1. Adult ♀ P. North Borneo. E. Gerrard & Sons.

Genus 191. **Paradoxurus.**

Paradoxurus F. Cuv., Hist. Nat. Mamm., III, 1821, pl. & text. *Id.* Bull. Sci. Soc. Philom., 1822, p. 103. Type *Paradoxurus typus* F. Cuvier = *Viverra nigra* Desmarest.

687. Paradoxurus hermaphroditus (Schreber).

Viverra hermaphrodita Schreb., Säugth., III, 1778, p. 426.

Viverra prehensilis Desm., Mamm., 1820, p. 208.

* Some writers have rejected this term on account of its being antedated by *Priodon* Cuvier. It does not seem that Cuvier ever used the term *Priodon*. In 1822 (i. e.) he used the French word *Priodonte* which of course cannot be adopted, and his new reference to these animals *Priodontes* was in 1827, three years after *Prionodon* was established by Horsfield. It would seem therefore that *Prionodon* is correctly used for the genus, and may not be superceded by *Linsang*, which becomes a synonym.

Paradoxurus musanga Gray, Proc. Zool. Soc., 1832, p. 66.

Paradoxurus crossii Gray, Proc. Zool. Soc., 1832, p. 67.

Paradoxurus pallasii Gray, Proc. Zool. Soc., 1832, p. 67.

Paradoxurus hermaphroditus Blanford, Proc. Zool. Soc., 1885, p. 794.

MALAYAN PALM-CIVET.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ Melanistic form. P. Altapupu, Timor. A. Everett.
3. Adult — P. Malacca. E. Gerrard & Sons.

Genus 192. **Hemigalus.**

Hemigalus Jourd., Compt. Rendus, v, 1837, p. 442. Type *Viverra hardwickii* Gray.

688. **Hemigalus hardwicki** (Gray).

Viverra hardwickii Gray, Spic. Zool., II, 1830, p. 9. (nec Less.)

Hemigale zebre Éyd. & Soul., Voy. 'Bonite.' Mamm., 1837-8, pl. v.

Paradoxurus derbyanus Gray, Mag. Nat. Hist., I, 1837, p. 579.

Paradoxurus? zebra Gray, Mag. Nat. Hist., I, 1837, p. 579.

Viverra boiei Müll., Tijds. Nat. Gesch., v, 1863, p. 144.

HARDWICKE'S PALM-CIVET.

1. Adult. ♀ P. Borneo. E. Gerrard & Sons.

Genus 193. **Arctictis.**

Arctictis Temm., Prosp. Mon. Mamm., 1824. Type *Viverra? binturong* Raffles.

Ictides Valenciennes, Ann. Scien. Nat., Paris, IV, 1825, p. 57.

689. **Arctictis binturong** (Raffles).

Viverra? binturong Raffles, Trans. Linn. Soc., XII, 1822, p. 253.

Arctictis binturong Temm., Mon. Mamm., I, 1827, p. XXI; II, 1835, p. 308.

Arctictis penicillatus Temm., Mon. Mamm., II, 1835, p. 2.

Paradoxurus albifrons F. Cuv., Mém. Mus., IX, 1822, p. 44, t. 4.

Ictides ater F. Cuv., Mamm. Lithogr., I, 1824, pl. 202.

BINTURONG, BEAR-CAT.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 194. **Nandinia.**

Nandinia Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xx, 54.
Type *Viverra binotata* Gray.

690. **Nandinia binotata** (Gray).

Viverra binotata Gray, Spic. Zool., II, 1830, p. 9.

Paradoxurus hamiltoni Gray, Proc. Zool. Soc., 1832, p. 67.

Nandinia binotata Gray, List Spec. Mamm. Brit. Mus., 1843, p. 54.

NANDINA.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 195. **Arctogalidia.**

Arctogalidia Merr., Science, N. S., v, 1897, p. 302. Type *Paradoxurus trivirgatus* Gray.

Arctogale Peters, Handb. Zool., I, 1863, p. 98. (nec Kaup, 1829.)

691. **Arctogalidia leucotis** (Blyth).

Paradoxurus leucotis Blyth, Horsf. Cat., 1851, p. 66. Gray, Cat. Carniv. Pachyd. & Edent. Mamm. Brit. Mus., 1869, p. 76.

Paradoxurus prehensilis Sclat., Proc. Zool. Soc., 1877, p. 681, pl. LXXI. (nec Blainv.)

Arctogale leucotis Blanf., Faun. Brit. India, Mamm., 1888-1891, p. 115, fig. 30.

SMALL-TOOTHED PALM-CIVET.

1. Adult ♂ P. Lingga Island, Sumatra. A. H. Everett.

Subfamily II. **Mungosinæ.**Genus 196. **Mungos.**

Mungos Geoff. & Cuvier, Mag. Encyclop., II, 1795, pp. 184, 187. Ogilby, Proc. Zool. Soc., 1835, p. 103. Type *Viverra ichneumon* Linnæus.

Ichneumon Frisch, Das Nat.-Syst. vierfüß. Thiere, in Tabellen, II, Tab. Gen., 1775. (nec Linn.)

Herpestes Illig., Prodr. Syst. Mamm. et Av., 1811, p. 135.

Mangusta Horsf., Zool. Research., 1824, pl. & text.

Atilax F. Cuv., Hist. Nat. Mamm., v, livr. LIV, 1826, pl. & text.

Urva Hodgs., Jour. Asiat. Soc. Beng., vi, Pt. 2, 1837, p. 561.

Mesobema Hodgs., Calcutta Jour. Nat. Hist., II, 1841, p. 214.

Osmetectis Gray, Ann. Mag. Nat. Hist., x, 1842, p. 260.

Calogale Gray, Proc. Zool. Soc., 1864, p. 560.

Calictis Gray, Proc. Zool. Soc., 1864, p. 564.

Tæniogale Gray, Proc. Zool. Soc., 1864, p. 569.

Onychogale Gray, Proc. Zool. Soc., 1864, p. 570.

692. *Mungos mungo* (Gmelin).

Viverra mungo Gmel., Syst. Nat., I, 1788, p. 84.

Ichneumon griseus E. Geoff., Descrip. Egypt, II, 1812, p. 157.

Herpestes griseus Desm., Mamm., 1820, p. 212.

Herpestes frederici Desm., Dict. Scien. Nat., xxix, 1823, p. 60.

Herpestes pallidus Wagn., Schreb. Säugth., Suppl., II, 1841, p. 311; pl. cxvi.

Herpestes ferrugineus Blanf., Proc. Zool. Soc., 1874, p. 661, pl. LXXXI.

Herpestes andersoni Murray, Vert. Zool. Sind, 1884, p. 34.

Herpestes mungo Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. II, 1904, p. 462, figs. 85, LXI. Zool. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 374. Zool. Ser.



FIG. XLIV. MUNGOS MUNGO. MUNGOOSE.

COMMON INDIAN MUNGOOSE.

1. Adult ♂ P. San Domingo City, San Domingo. G. K. Cherrie.

693. *Mungos gracilis* Rüppell.

Herpestes gracilis Rüpp., Neu. Wirbelth. Abyss., 1835, p. 29, pl. VIII, fig. 2.

Herpestes mutigella Rüpp., Neu. Wirbelth. Abyss., 1835, p. 29, pl. IX, fig. 1.

Ichneumia nigricaudatus Geoff., Mag. Zool., 1839, p. 18.

Herpestes galinieri Guérin, Ferr. & Galin. Voy. Abyss., Alt. Zool., 1847, pl. I, fig. 1.

Herpestes punctulatus Gray, Proc. Zoöl. Soc., 1849, p. 11.

Herpestes lefeburei Des Murs & Prév., Lefeb. Voy. Abyss., Atl. Zool., 1850, pl. I.

Herpestes ornatus Peters, Reis. nach Mossamb., Säugeth., 1852, p. 117, pl. XXVI.

Herpestes ochromelas Pucher., Rev. Mag. Zool., VII, 1855, p. 393.

Herpestes iodoprymnus Heugl., Nov. Act. Acad. Cæs. Leop.-Carol., XXIX, 1861, p. 23.

Herpestes adailensis Heugl., Peterm. Geog. Mittheil., 1861, p. 17.

Herpestes mutscheltschela & *H. ruficauda* Heugl., Reis. N. Afr., II, 1877, pp. 41, 43.

GRACEFUL MUNGOOSE.

1. Adult ♀ P. Upper Shire River, British Central Africa. P. Rendall.

Genus 197. **Helogale.**

Helogale Gray, Proc. Zoöl. Soc., 1861, p. 308, figs. Type *Herpestes parvulus* Sundevall.

694. *Helogale atkinsoni* Thomas.

Helogale atkinsoni Thos., Ann. Mag. Nat. Hist., XX, 6th Ser., 1897, p. 377. *Id.* Proc. Zoöl. Soc., 1902, p. 119.

ATKINSON'S MUNGOOSE.

1. Adult ♂ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.

Genus 198. **Cynictis.**

Cynictis Ogilby, Proc. Zoöl. Soc., 1833, p. 48. Type *Cynictis steedmanni* Ogilby = *Herpestes penicillatus* Cuvier.

695. Cynictis penicillatus (G. Cuvier).

Herpestes penicillatus G. Cuv., Règ. Anim., 2me ed., I, 1829, p. 158.

Mangusta levaillantii A. Smith, Zoöl. Jour., IV, 1829, p. 437.

Cynictis steedmanni Ogilby, Proc. Zoöl. Soc., 1833, p. 49.

Cynictis ogilbyii A. Smith, S. Afr. Quart. Jour., II, 1834, p. 116.

Cynictis lepturus A. Smith, Ill. S. Afr. Zoöl., Mamm., 1839, pl.

XVII.

BUSHY-TAILED MEERKAT.

1. Adult — P. Cape Colony, S. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. South Africa. E. Gerrard & Sons.

Family III. Hyænidæ. Hyænas.**Subfamily I. Protelinæ.****Genus 199. Proteles.**

Proteles I. Geoff., Mém. Mus. Hist. Nat. Paris, XI, 1824, p. 355, pl. 20. Type *Proteles lalandii* Geoffroy = *Viverra cristata* Sparrman.

696. Proteles cristatus (Sparrman).

Viverra cristata Sparrm., Resa till Goda Hopps-udden, I, 1783, p. 581; *Id.* English Translation, II, 1785, p. 192.

Viverra hyænoides Desm., Mamm., 1820, p. 538.

Proteles lalandii Is. Geoff., Mém. Mus. Hist. Nat. Paris, XI, 1824, p. 371, pl. 20.

Proteles cristatus W. L. Sclater, Faun. S. Afr., Mamm., I, 1900, p. 80, figs. 20, 21.

AARD-WOLF.

1. Adult — P. Cape Colony, South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. Hyæninæ.**Genus 200. Hyæna.**

Hyæna Brisson, Regn. Anim., 2d ed., 1762, p. 169. Type *Hyæna hyæna* Brisson = *Canis hyæna* Linnæus.

697. Hyæna crocuta (Erxleben).

Canis crocuta Erxleben, Syst. Regn. Anim., 1777, p. 578.

Hyæna crocuta Zimm., Geogr. Gesch., 1777, p. 256. W. L.

Sclater, Faun. S. Afr., Mamm., 1, 1900, p. 87, fig. 22.

Hyæna capensis Desm., Mamm., 1820, p. 216.

Crocuta maculata Layard, Cat. Mamm. S. Afr. Mus., 1862, p. 36.

Gray, Proc. Zool. Soc., 1868, p. 525.

SPOTTED HYÆNA.

1. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ Coll. Le Gud, Somaliland, E. Africa. D. G. Elliot.

3. Juv. ♂ Coll. Le Gud, Somaliland, E. Africa. D. G. Elliot.

4. Adult ♂ Coll. Marodijeh, Somaliland, E. Africa. D. G. Elliot.

698. Hyæna hyæna (Linnæus).

Canis hyæna Linn., Syst. Nat., 1, 1758, p. 40; 1, 1766, p. 58.

Hyæna striata Zimm., Specim. Zool. Geogr., 1777, p. 366.

Hyæna orientalis Tiedem., Zool., 1, 1808, p. 500.

Hyæna vulgaris Desm., Mamm., 1820, p. 215.

Hyæna antiquorum Temm., Ann. Gen. Scien. Phys., III, 1820, p. 51.

Hyæna virgata Gray, Proc. Zool. Soc., 1856, p. 397.

STRIPED HYÆNA.

1. Adult ♂ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.

2. Adult ♂ Coll. Hersi Barri, Ogaden, Somaliland, East Africa. D. G. Elliot.

3. Juv. ♂ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.

4. Adult ♀ Coll. Durban, Somaliland, East Africa. D. G. Elliot.

5. Adult — P. North Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

6. Adult — Pres. — — —? Lincoln Park Menagerie, Chicago.

Family IV. Canidæ. Dogs, Wolves, Foxes.**Subfamily I. Caninæ.****Genus 201. Nyctereutes.**

Nyctereutes Temm., Tidsch. Nat. Geschied. Phys., v, 1838-39, p. 285. Type *Canis procyonoides* Gray.

699. Nyctereutes procyonides (Gray).*Canis procyonoides* Gray, *Illust. Ind. Zool.*, II, 1834, pl. 1.*Canis* (*Nyctereutes*) *viverrinus* Temm., *Faun. Japon.*, *Mamm.*, 1847, p. 40, pl. 8.*Nyctereutes procyonoides* Gray, *Proc. Zool. Soc.*, 1868, p. 522.**RACCOON-LIKE DOG.**

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 202. Lycaon.

Lycaon Brookes, in *Griff. Anim. Kingd.*, v, 1827, p. 151. Type *Lycaon tricolor* Brookes = *Hyæna picta* Temminck.

700. Lycaon pictus (Temminck).*Hyæna picta* Temm., *Ann. Gen. Scien. Phys.*, III, 1820, p. 54, pl. XXXV.*Hyæna venatica* Burch., *Trav.*, I, 1822, p. 456; II, pp. 99, 229.*Canis pictus* Desm., *Mamm.*, *Suppl.*, 1822, p. 538.*Lycaon tricolor* Brookes, in *Griff. Anim. Kingd.*, v, 1827, p. 151.*Id.* *Prod. Anim.*, 1828, p. 10.**HYÆNA DOG, WILD DOG.**

1. Juv. — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. XLV. LYCAON PICTUS. HYÆNA DOG.

Genus 203. **Otocyon.**

Otocyon Müll., Archiv Anat. & Phys., 1836, pl. 1. Type *Otocyon caffer* Lichtenstein = *Canis megalotis* Desmarest.

Agriodius H. Smith, Jard. Nat. Libr., Mamm., x, 1840, p. 258.

701. Otocyon megalotis (Desmarest).

Canis megalotis Desm., Mamm., Suppl., 1, 1822, p. 538.

Canis landii Desmoul., Dict. Class. Hist. Nat., iv, 1823, p. 18.

Otocyon caffer Licht., Wieg. Archiv f. Naturg., iv, 1838, p. 290.

LARGE-EARED FOX.

1. Adult ♂ Coll. Dagahbur, Somaliland, East Africa. D. G. Elliot.

Genus 204. **Canis. Dogs, Wolves.**

Canis Linn., Syst. Nat., 1, 1758, p. 38; 1, 1766, p. 56. Type *Canis familiaris* Linnæus.

Lupus Frisch, Das Nat.-Syst. vierfüß. Thiere, in Tabellen, 14, Tab. Gen., 1775.

Thos Oken, Lehrb. Naturg., 3ter Theil, Zool., 2te Abth., 1816, p. 1037.

Lyciscus H. Smith, Jard. Nat. Libr., Mamm., ix, 1839, p. 160.

Thous H. Smith, Jard. Nat. Libr., Mamm., ix, 1839, p. 193.

Lycalopex Burm., Syst. Uebers. Thiere Bras., Mamm., 1, 1854, p. 95.

Lupulus Gervais, Hist. Nat. Mamm., 11, 1855, p. 60.

Simzonia Gray, Proc. Zool. Soc., 1868, p. 494.

Dieba Gray, Cat. Carniv. Pachyd. & Eden. Mamm. Brit. Mus., 1869, pp. 180, 189.

Subgenus A. *Thos.***702. Canis mesomelas** Schreber.

Canis mesomelas Schreb., Säugth., 111, 1778, p. 370, pl. 95. Desm., Mamm., 1820, p. 201.

Thous mesomelas H. Smith, Jard. Nat. Libr., Mamm., ix, 1839, p. 193, pl. 12.

BLACK-BACKED JACKAL.

1. Adult ♂ Coll. Adadleh, Somaliland, East Africa. D. G. Elliot.

2. Adult ♂ Coll. Marodijeh, Somaliland, East Africa. D. G. Elliot.

3. Adult ♀ Coll. Marodijeh, Somaliland, East Africa. D. G. Elliot.
4. Adult ♀ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.

703. *Canis anthus* F. Cuvier.

- Canis anthus* F. Cuv., Hist. Nat. Mamm., II, 1824.
Canis variegatus Rüpp., Atlas Zool., 1826, p. 31, pl. 10.
Canis lupaster Hempr. & Ehrenb., Symb. Phys., 1833, p.—
Satalius barbarus H. Smith, Jard. Nat. Libr., Mamm., IX, 1839,
 p. 218.
Lupus anthus Gray, Proc. Zool. Soc., 1868, p. 502.
Dieba anthus Gray, Cat. Carniv. Pachyd. & Edent. Mamm. Brit.
 Mus., 1869, p. 189.

NORTH AFRICAN JACKAL.

1. Adult ♂ Coll. Berbera, Somaliland, East Africa. D. G. Elliot.
2. Adult ♂ Coll. Anouf Prairie, Somaliland, East Africa. D. G. Elliot.

704. *Canis cancrivorus* Desmarest.

- Canis cancrivorus* Desm., Mamm., 1820, p. 199.
Canis brasiliensis Lund, Blik Bras. Dyrev. femte Afhandl., 1843,
 p. 10, pl. 42, figs. 1-3.
Canis melampus Wagn., Archiv f. Natur., IX, 1843, p. 357.
Canis melanostomus Wagn., Archiv f. Natur., IX, 1843, p. 358.

CRAB-EATING DOG.

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

705. *Canis azaræ* Maximilian.

- Canis azaræ* Max., Beitr. Nat. Bras., II, 1826, p. 338.
Canis fulvipes Martin, Proc. Zool. Soc., 1837, p. 11.
Canis entrerianus Burm., Reis. de la Plata, II, 1861, p. 400.
Canis gracilis Burm., Reis. de la Plata, II, 1861, p. 406.

AZARA DOG.

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

706. *Canis aquilus* (Bangs).

- Urocyon aquilus* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 93.
Canis aquilus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p.
 450.

COLOMBIAN WILD DOG.

1. Adult — P. Bonda, Colombia, South America. H. H. Smith.

Subgenus B. *Lupulus*.**707. *Canis latrans* Say.**

Canis latrans Say, Long's Exped. Rocky Mts., I, 1823, p. 168.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 301, pl.
 XXIX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &
 W. Indies, F. C. M. Pub., VI, 1905, p. 376. Zool. Ser.

BARKING COYOTE.

1. Adult ♀ P. Quesville, British Columbia, Canada. C. K. Worthen.
2. Adult ♀ Pres. Minkata, Minnesota. A. Schubert.
3. Adult ♀ Kansas. No record.
4. Adult ♂ Melanistic form. P. Winnipeg, Manitoba, Canada. A. C. Foster.

708. *Canis lestes* Merriam.

Canis lestes Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 25. Elliot,
 Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 301. Zool.
 Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub.,
 IV, Pt. II, 1904, p. 465. Zool. Ser. *Id.* Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 377.
 Zool. Ser.

ROBBER COYOTE.

1. Adult ♂ Coll. Long Cañon, Mt. Whitney, California. E. Heller.
2. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
3. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

709. *Canis nebrascensis* Merriam.

Canis pallidus Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 24.
 (preoccupied.)

Canis nebrascensis! Merr., Science, N. Ser., VIII, 1897, p. 782.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 301.
 Zool. Ser.

Canis nebrascensis Elliot, Check-L. Mamm. N. Amer. Cont. & W.
 Indies, F. C. M. Pub., VI, 1905, p. 377. Zool. Ser.

NEBRASKA COYOTE.

1. Adult ♂ P. Alberta, Canada. G. F. Dippie.
2. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.

710. *Canis mearnsi* Merriam.

Canis mearnsi Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 30.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 302.
 Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.
 Pub., IV, Pt. II, 1904, p. 468. Zool. Ser. *Id.* Check-L. Mamm.

N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 377.
Zool. Ser.

MEARNS'S COYOTE.

1. Adult ♂ Coll. Calabozo, Lower California, Mexico. E. Heller.
2. Adult ♀ Coll. El Alamo, Lower California, Mexico. E. Heller.
3. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
4. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
5. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.

711. *Canis estor* Merriam.

Canis estor Merr., Proc. Biol. Soc. Wash., xi, 1897, p. 31. Elliot,
Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 302. Zool.
Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub.,
iv, Pt. ii, 1904, p. 469. Zool. Ser. *Id.* Check-L. Mamm. N.
Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 378.
Zool. Ser.

NOLAND'S RANCH COYOTE.

1. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.
2. Adult ♀ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.
- 3-5. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
- 6-7. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.
8. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
9. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
10. Adult ♀ Coll. Neenach, California. E. Heller.

712. *Canis clepticus* Elliot.

Canis clepticus Elliot, Pub. Field Columb. Mus., iii, 1903, p. 225.
Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.
Pub., iv, Pt. ii, 1904, p. 467. Zool. Ser. *Id.* Check-L.
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905,
p. 379. Zool. Ser.

THIEVISH COYOTE.

1. Adult ♂ Type. Coll. Vallecitos, Lower California, Mexico. E. Heller.
2. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Heller.

3. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
4. Adult ♀ Coll. Agua Escondido, Lower California, Mexico. E. Heller.

713. *Canis ochropus* Eschscholtz.

Canis ochropus Eschsch., Zool. Atlas, III, 1829, pp. 1-2, pl. II. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 303. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 469. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 379. Zool. Ser.

OCHRACEOUS-FOOTED COYOTE.

1. Adult ♂ Coll. Fort Tejon, California. E. Heller.

Subgenus *C. Canis*.

714. *Canis simensis* Rüppell.

Canis simensis Rüpp., Neue Wirbelth. Faun. Abyss., 1835, p. 39, pl. 14.

Simenia simensis Gray, Proc. Zool. Soc., 1868, p. 506.

ABYSSINIAN WOLF.

1. Adult ♂ P. Abyssinia. P. H. G. Powell-Cotton.

715. *Canis mexicanus* Linnæus.

Canis mexicanus Linn., Syst. Nat., I, 1766, p. 60. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 471, fig. LXII, pl. XLVI. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 376. Zool. Ser.

MEXICAN TIMBER WOLF. *Lobo* in Spanish America.

- 1-2. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.

716. *Canis occidentalis* (Richardson).

Canis lupus occidentalis Richard., Faun. Bor. Amer., Mamm., I, 1829, p. 60.

Canis occidentalis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 300. Zool. Ser. (Part.) *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 376. Zool. Ser.

WESTERN TIMBER WOLF.

1. Adult ♂ P. ———? C. E. Akeley.
2. Adult ♀ P. ———? C. E. Akeley.



FIG. XLVI. *CANIS MEXICANUS*. MEXICAN TIMBER WOLF.

3. Adult — P. ———? C. E. Akeley.
4. Adult — P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
5. Adult — P. Park Siding, Michigan. Reinboldt.

717. *Canis griseus* (Sabine).

Canis lupus griseus Sabine, Frankl. Narr. Journ. Polar Sea, 1823, p. 654.

Canis lupus albus Sabine, Frankl. Narr. Journ. Polar Sea, 1823, p. 655.

Lupus griseus var. A. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 66.

Lupus albus var. B. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 68.

Lupus stictus var. C. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 68.

Lupus ater var. E. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 70.

Canis occidentalis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 300. Zoöl. Ser. (Part.)

Canis griseus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 375. Zoöl. Ser.

ARCTIC WOLF.

1. Adult ♀ P. Gleichen, Alberta, Canada. G. F. Dippie.
2. Juv. ♂ P. Gleichen, Alberta, Canada. G. F. Dippie.
- 3-4. Juv. ♀ P. Gleichen, Alberta, Canada. G. F. Dippie.

718. *Canis pambasileus* Elliot.

Canis pambasileus Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p.

79. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 374. Zoöl. Ser.

AUTOCRAT TIMBER WOLF.

- 1-2. Adult ♂ Type & paratype. P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.
- 3-5. Adult — P. Kenai Peninsula, Alaska. C. F. Periolat.

Genus 205. *Vulpes*. Red Foxes.

Vulpes Frisch, Das Nat.-Syst. vierfüss. Thiere, in Tabellen, Tab.

Gen., 1775. Type *Canis vulpes* Linnæus.

Leucocyon Gray, Proc. Zoöl. Soc., 1868, p. 521.

719. *Vulpes fulva* (Desmarest).

Canis fulvus Desm., Mamm., I, 1820, p. 203.

Canis decussatus Desm., Mamm., I, 1820, p. 203.

Vulpes pennsylvanica Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 304. Zoöl. Ser.

Vulpes fulva Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 380. Zoöl. Ser.

RED FOX.

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult — P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.
- 4-6. Adult — P. Log Cabin, Stevensville Crossing, Newfoundland. C. F. Periolat.
7. Adult ♀ P. Job's Knob Mountain, West Virginia. T. Surber.

a. Vulpes fulva argentata (Shaw).

Canis argentatus Shaw, Gen. Zoöl., I, 1800, p. 325.

Vulpes pennsylvanica argentata Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 304. Zoöl. Ser.

Vulpes fulva argentata Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 380. Zoöl. Ser.

SILVER FOX, BLACK FOX.

1. Adult — P. ———? C. F. Periolat.

b. *Vulpes fulva macroura* (Baird).

Vulpes macrourus Baird, Stansb. Expl. Great Salt Lake, Utah, 1852, p. 309.

Vulpes pennsylvanica macrura Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 305. Zoöl. Ser.

Vulpes fulva macroura Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 380. Zoöl. Ser.

LONG-TAILED FOX.

1. Adult — P. Minnesota. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.

3. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.

4-5. Adult — P. Alaska. C. F. Periolat.

720. *Vulpes necator* Merriam.

Vulpes necator Merr., Proc. Wash. Acad. Scien., II, 1900, p. 664.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Append., p. 433. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 381. Zoöl. Ser.

MURDERING FOX.

1-3. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.

4. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.

721. *Vulpes regalis* Merriam.

Vulpes regalis Merr., Proc. Wash. Acad. Scien., II, 1900, p. 672.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Append., p. 432. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 382. Zoöl. Ser.

ROYAL FOX.

1. Adult ♂ P. Madison, Minnesota. A. Lanon.

a. *Vulpes lagopus innuitus* Merriam.

Vulpes lagopus innuitus Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 170. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 382. Zoöl. Ser.

SUMMIT ARCTIC FOX.

1. Adult — P. Alaska. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Stellneckt Island, Greenland. S. Warmbath.
3. Adult ♀ P. Stellneckt Island, Greenland. S. Warmbath.

722. *Vulpes macrotis* Merriam.

Vulpes macrotis Merr., Proc. Biol. Soc. Wash., IV, 1888, p. 135.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 306.
 Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 472, figs. 86, LXIII. Zool. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 384. Zool. Ser.



FIG. XLVII. *VULPES MACROTIS*. BIG-EARED KIT FOX.

BIG-EARED KIT FOX.

1. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
2. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.

723. *Vulpes velox* (Say).

Canis velox Say, in Long's Exped. Rocky Mts., I, 1823, p. 487.
Canis cinereo-argentatus Sabine, Frankl. Narr. Journ. Polar Sea, 1823, p. 658.
Canis microtus Reichenb., Wieg. Archiv f. Naturg., III, 1837, II, p. 162.
Vulpes velox Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 306. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 384. Zool. Ser.

SWIFT FOX.

1. Adult — P. Rocky Ford, Colorado. B. B. Beymer.

a. *Vulpes velox hebes* Merriam.

Vulpes velox hebes Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 73.

Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 384. Zool. Ser.

SLUGGISH FOX.

1. Adult ♂ P. Rush Lake, Assiniboia, Canada. G. F. Dippie.
 2-3. Adult ♀ P. Rush Lake, Assiniboia, Canada. G. F. Dippie.
 4-5. Adult ♀ Topotypes. P. Calgary, Alberta, Canada. G. F. Dippie.

724. *Vulpes arsipus* Elliot.

Vulpes arsipus Elliot, Pub. Field Columb. Mus., iii, 1903, p. 256.

Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 385. Zool. Ser.

SWIFT-FOOTED KIT FOX.

- 1-2. Adult ♂ Type and paratype. Coll. Daggett, Mohave Desert, California. E. Heller.
 3-4. Adult ♀ Paratypes. Coll. Daggett, Mohave Desert, California. E. Heller.
 5. Adult ♀ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
 6. Adult ♀ Coll. Pilot Knob, California. E. Heller.

725. *Vulpes vulpes* Linnæus.

Canis vulpes Linn., Syst. Nat., i, 1758, p. 40; i, 1766, p. 59.

Canis alopec Linn., Syst. Nat., i, 1758, p. 40; i, 1766, p. 59.

Canis vulpes montana Pearson, Jour. Asiat. Soc. Beng., v, 1836, p. 313.

Canis himalaicus Ogilby, Proc. Zool. Soc., 1836, p. 103.

Vulpes flavescens Gray, Ann. Mag. Nat. Hist., xi, 1843, p. 118.

COMMON FOX.

1. Adult — P. Europe. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 206. *Urocyon*. Gray Foxes.

Urocyon Baird, N. Am. Mamm., 1857, p. 121. Type *Canis virginianus* Erxleben = *Canis cinereo-argenteus* Müller.

726. *Urocyon cinereo-argenteus* (Müller).

Canis cinereo-argenteus Müll., Natur. Suppl., 1776, p. 29. (Desc.) Schreb., Säugth., iii, 1776, p. 361, pl. xcii, 1775.

Canis virginianus Erxl., Syst. Regn. Anim., 1777, p. 567.

Canis griseus Bodd., Elench. Anim., 1, 1784, p. 97.

Urocyon cinereo-argenteus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 307. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 386. Zoöl. Ser.

GRAY FOX.

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.

a. *Urocyon cinereo-argenteus scotti* Mearns.

Urocyon cinereo-argenteus scotti Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 236. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 308, pl. xxxi. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 477. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 386. Zoöl. Ser.

SCOTT'S GRAY FOX.

1. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 2-5. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico. V. S. Kennedy.
6. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

b. *Urocyon cinereo-argenteus texensis* Mearns.

Urocyon cinereo-argenteus texensis Mearns, Proc. U. S. N. Mus., XX, 1897, p. 459. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 308. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 478. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 386. Zoöl. Ser.

TEXAS GRAY FOX.

1. Adult ♂ P. Ciudad, State of Durango, Mexico. A. Forrer.

c. *Urocyon cinereo-argenteus californicus* Mearns.

Urocyon cinereo-argenteus californicus Mearns, Proc. U. S. Nat. Mus., XX, 1897, p. 459. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 308. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 477. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 387. Zoöl. Ser.

CALIFORNIA GRAY FOX.

1. Adult ♂ Coll. Mendocino, California. E. Heller.
2. Adult ♀ P. Marin County, California. C. K. Worthern.
3. Adult — P. Nicasio, California. C. K. Worthern.

4. Adult — Coll. Nicasio, California. E. Heller.
5. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
6. Juv. ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.

d. *Urocyon cinereo-argenteus inyoensis* Elliot.

Urocyon cinereo-argenteus inyoensis Elliot, Pub. Field Columb. Mus., III, 1904, p. 268. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 387. Zoöl. Ser.

INYO MOUNTAINS GRAY FOX.

1. Adult ♂ Type. Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
2. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.

e. *Urocyon cinereo-argenteus guatemalæ* (Miller).

Urocyon guatemalæ Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 278.

Urocyon cinereo-argenteus guatemalæ Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 475. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 389. Zoöl. Ser.

GUATEMALAN GRAY FOX.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 2-3. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
4. Adult — Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
5. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

f. *Urocyon cinereo-argenteus fraterculus* Elliot.

Urocyon cinereo-argenteus fraterculus Elliot, Pub. Field Columb. Mus., I, 1896, p. 80. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 475, figs. 87, LXIV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 389. Zoöl. Ser.

LITTLE GRAY FOX.

- 1-2. Adult ♂ Type and paratype. Pres. San Felipe, Yucatan. C. B. Cory.



FIG. XLVIII. *UROCYON C. FRATERCULUS*. LITTLE GRAY FOX.

727. *Urocyon catalinae* Merriam.

Urocyon catalinae Merr., Proc. Biol. Soc. Wash., xvi, 1903, p. 74.
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., vi, 1905, p. 389. Zoöl. Ser.

SANTA CATALINA ISLAND GRAY FOX.

- i. Adult ♂ Topotype. P. Santa Catalina Island, Santa Barbara Islands, California. J. Rowley.

728. *Urocyon aquilus* Bangs.

Urocyon aquilus Bangs, Proc. Biol. Soc. Wash., xii, 1898, p. 93.
 DARK COLORED GRAY FOX.

- i. Adult — P. Bonda, Colombia, S. A. H. H. Smith.

Family V. **Ursidae. Bears.**

Subfamily I. **Ursinae.**

Genus 207. **Ursus.**

Ursus Linn., Syst. Nat., i, 1758, p. 47; i, 1766, p. 69. Type *Ursus arctos*! Linnæus.

- Danis* Gray, Thos. Ann. Phil., xxvi, 1825, pp. 60, 339.
Thalarctos! Gray, Thos. Ann. Phil., xxvi, 1825, p. 62.
Thalassarctos! Gray, Thos. Ann. Phil., xxvi, 1825, p. 339.
Helarctos! Horsf., Zoöl. Jour., II, 1825, pp. 221-234, pl. VII.
Euarctos! Gray, Proc. Zoöl. Soc., 1864, p. 692.

Subgenus A. *Thalassarctus*. Polar Bear.

729. *Ursus maritimus* Phipps.

- Ursus maritimus* Phipps, Voy. N. Pole, 1774, p. 185. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 310, pl. XXXII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 390. Zoöl. Ser.

POLAR BEAR.

1. Adult — P. Greenland. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ P. Hudson Bay Region, Arctic America. Thos. Luce & Co., New Bedford, Mass.
3. Adult ♀ P. Hudson Bay Region, Arctic America. Thos. Luce & Co., New Bedford, Mass.
- 4-5. Juv. — P. Hudson Bay Region, Arctic America. Thos. Luce & Co., New Bedford, Mass.

Subgenus B. *Ursus*. Brown Bears.

730. *Ursus middendorffi* Merriam.

- Ursus middendorffi* Merr., Proc. Biol. Soc. Wash., x, 1896, p. 69. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 310. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 390. Zoöl. Ser.

MIDDENDORFF'S, OR ALASKA BROWN BEAR.

1. Adult — Topotype. P. Kadiak Island, Alaska. C. F. Periolat.
- 2-3. Juv. — Topotype. P. Kadiak Island, Alaska. C. F. Periolat.

Subgenus C. *Danis*. Grizzly Bears.

731. *Ursus horribilis* Ord.

- Ursus horribilis* Ord, Guthr. Geog., 2d Am. ed., II, 1815, p. 291, desc. p. 299. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 312, pl. XXXIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 392. Zoöl. Ser.

- Ursus horribilis californicus* Merr., Proc. Biol. Soc. Wash., x, 1896, p. 76.

GRIZZLY BEAR.

1. Adult ♂ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
 2. Adult ♀ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
 3. Juv. — P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
 4. Adult ♀ Pres. West border of Yellowstone Nat. Park, Wyoming. Johnston & Ashcroft.
 - 5-7. Juv. — Pres. West border of Yellowstone Nat. Park, Wyoming. Johnston & Ashcroft.
- a. *Ursus horribilis horriæus* Baird.
Ursus horribilis var. *horriæus* Baird, Rep. Mex. Bound. Surv., II, Pt. II, 1859, p. 24.
Ursus horribilis horriæus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 312. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 393. Zoöl. Ser.
Ursus horriæus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 480, fig. LXV, pl. XLVII. Zoöl. Ser.



FIG. XLIX. URSUS H. HORRIÆUS. MEXICAN GRIZZLY BEAR.

MEXICAN GRIZZLY BEAR.

- 1-3. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico. V. S. Kennedy.
4. Juv. — Pres. Casas Grandes, State of Chihuahua, Mexico. F. M. Stevenson.

Subgenus *D. Enarctus*. Black Bears.732. *Ursus americanus* Pallas.

Ursus americanus Pall., Spic. Zool., fasc. xiv, 1780, p. 5. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 313, pl. xxxiv. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 394. Zool. Ser.

AMERICAN BLACK BEAR.

1. Juv. — Pres. Near western border of Yellowstone Nat. Park, Wyoming. Johnston & Ashcroft.
- 2-3. Juv. — (Cinnamon.) P. Minnesota. C. E. Akeley.
4. Adult ♀ P. Wisconsin. C. E. Akeley.
- 5-6. Juv. — P. Wisconsin. C. E. Akeley.

733. *Ursus altifrontalis* Elliot.

Ursus altifrontalis Elliot, Pub. Field Columb. Mus., III, 1903, p. 234. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 395. Zool. Ser.

NORTHWESTERN BLACK BEAR.

1. Adult ♂ Type. Coll. Shore of Lake Crescent, Clallam County, Washington. D. G. Elliot.
2. Juv. — Paratype. Coll. Shore of Lake Crescent, Clallam County, Washington. D. G. Elliot.

734. *Ursus emmonsii* (Dall).

Ursus americanus var. *emmonsii* Dall, Science, N. S., II, 1895, p. 87.

Ursus emmonsii Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 315. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 397. Zool. Ser.

EMMONS'S GLACIER BEAR.

- 1-2. Adult — P. Mt. St. Elias, Alaska. C. F. Periolat.
3. Adult — Pres. Mt. St. Elias, Alaska. V. S. Kennedy. C. F. Periolat.

735. *Ursus tibetanus* F. Cuvier.

Ursus tibetanus F. Cuv., Hist. Nat. Mamm., 1824, pl. 213.

Ursus malayanus Hodgs., Jour. Asiat. Soc. Beng., I, 1832, p. 340. (nec Raffles.)

Ursus torquatus Wagn., Schreb. Säugth., Suppl., II, 1841, p. 144.

Ursus ornatus Günth., Proc. Zool. Soc., 1880, p. 443.

TIBETAN BLACK BEAR.

1. Adult ♂ P. Tibet. Rowland Ward & Co.

736. *Ursus japonicus* Schlegel.

Ursus thibetanus Temm. & Schleg., Faun. Jap., 1850, p. 70, pl. 1, fig. 4. (nec F. Cuvier.)

Ursus japonicus Schleg., Handl. Beoef. Dierk., I, 1857, p. 42.

JAPANESE BLACK BEAR.

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus E. *Helarctus*. Sun Bears.

737. *Ursus malayanus* Raffles.

Ursus malayanus Raffles, Trans. Linn. Soc., XIII, 1822, p. 254.

Helarctos! eurypilus Horsf., Zool. Jour., II, 1825, p. 221.

Helarctos! malayanus Horsf., Zool. Jour., II, 1825, p. 234.

Ursus malayanus Blanf., Faun. Brit. Ind., Mamm., 1888-1891, p. 199.

MALAY BEAR.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Telok Betong, So. Sumatra. W. Danne.

Family VI. **Procyonidæ. Raccoons, Coatis, etc.**

Subfamily I. **Ælurinae.**

Genus 208. **Ælurus.**

Ailurus F. Cuv., Hist. Nat. Mamm., v, 1825, livr. L, pl. & text.

Type *Ailurus fulgens* F. Cuvier.

738. *Ælurus fulgens* F. Cuvier.

Ailurus fulgens F. Cuv., Hist. Nat. Mamm., 1825, pl. 203.

Ailurus ochraceus Hodg., Jour. Asiat. Soc. Beng., XVI, Pt. II, 1847, pp. 475, 573, pl. LII, LIII.

Ælurus fulgens Blanf., Faun. Brit. Ind., Mamm., 1888-91, p. 190, figs. 50, 51.

RED CAT-BEAR OR INDIAN RACCOON.

1. Adult — P. "North India." Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Procyoninæ.**Genus 209. **Bassariscus.**

Bassariscus Coues, Science, ix, 1887, p. 516. Type *Bassariscus astuta* Lichtenstein.

Bassariscus Licht., Isis, 1831, p. 512. (nec Hübner, 1816.)

Wagneria Jentink, Notes Leyden Mus., viii, 1886, p. 129. (nec Rob.-Desv., 1830, Diptera; nec Alenitzin, 1873, Protozoa.)

739. Bassariscus astutus (Lichtenstein).

Bassariscus astuta Licht., Isis, 1831, p. 513.

Bassariscus astutus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 316. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. ii, 1904, p. 484, figs. 88, LXVI. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 397. Zool. Ser.

COMMON RACCOON-FOX. *Cacomistl* in Mexico. *Cat Squirrel* in Texas.
1. Adult ♂ P. Pinal County, Oregon. W. E. D. Scott.



FIG. L. **BASSARISCUS ASTUTUS.** COMMON RACCOON-FOX.

2. Adult ♀ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

a. *Bassariscus astutus raptor* (Baird).

Bassariscus raptor Baird, Rep. U. S. Mex. Bound. Surv., Mamm., 11, 1859, p. 19.

Bassariscus flavus oregonus Rhoads, Proc. Acad. Nat. Scien. Phil., 1893, p. 416.

Bassariscus astutus raptor Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 316, pl. xxxv. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 398. Zoöl. Ser.

Bassariscus astutus oregonus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 317. Zoöl. Ser.

ROBBER RACCOON-FOX.

1. Adult — P. Southern California. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult ♂ P. Snow Mountains, Colusa County, California. W. W. Price.
- 4-5. Adult ♀ P. Snow Mountains, Colusa County, California. W. W. Price.

740. *Bassariscus albipes* Elliot.

Bassariscus albipes Elliot, Pub. Field Columb. Mus., III, 1903, p. 258. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. II, 1904, p. 486. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 399. Zoöl. Ser.

WHITE-FOOTED RACCOON-FOX.

1. Adult ♂ Type. Coll. Near City of Vera Cruz, State of Vera Cruz, Mexico. N. G. Buxton.

Genus 210. **Procyon.**

Procyon Storr, Prodr. Meth. Mamm., 1780, p. 35, Tab. A. Type *Ursus lotor* Linnæus.

Euprocyon Gray, Proc. Zoöl. Soc., 1864, pp. 705-706.

741. *Procyon lotor* (Linnæus).

Ursus lotor Linn., Syst. Nat., 1, 1758, p. 48.

Procyon lotor Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 317, fig. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 400. Zoöl. Ser.

COMMON RACCOON.

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — Albino. Pres. Wisconsin. E. E. Ayer.
3. Adult — Melanistic form. Pres. Wisconsin. E. E. Ayer.
4. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
6. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
- 7-8. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
- 9-10. Adult ♂ Coll. New Berlin, Florida. T. Surber.
- 11-12. Adult ♀ Coll. New Berlin, Florida. T. Surber.
13. Adult ♂ Coll. St. Marys, Georgia. T. Surber.
14. Adult — Pres. Jackson Park, Chicago. Shelby, Museum Guard.

a. Procyon lotor hernandezii (Wagler).

Procyon hernandezii Wagler, Isis, 1831, p. 514.

Procyon nivea Gray, Charlesw. Mag. Nat. Hist., 1, 1837, p. 580.

Procyon psora Gray, Ann. Mag. Nat. Hist., 1st Ser., 1842, p. 261.

Procyon lotor hernandezii Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 317. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 11, 1904, p. 491, fig. LXVII.



FIG. LI. *PROCYON L. HERNANDEZI*. HERNANDEZ'S RACCOON.

pl. L. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 401. Zoöl. Ser.

HERNANDEZ'S RACCOON.

1. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 2-3. Adult ♀ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
4. Adult ♂ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
5. Adult ♀ Coll. Oro Grande, Mohave Desert, California. E. Heller.
6. Adult ♀ Coll. Palm Springs, California. E. Heller.
- 7-8. Adult ♂ P. Presidio Propriae, Mazatlan, State of Sinaloa, Mexico. A. Forrer.
9. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
10. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 11-16. Adult ♀ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
- 17-19. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
20. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

Genus 211. **Nasua. Coatis.**

Nasua Storr, Prodr. Meth. Mamm., 1785, p. 35. Type *Viverra nasua* Linnæus.

742. Nasua nasica (Linnæus).

Viverra narica (sic) Linn., Syst. Nat., I, 1766, p. 64.

Nasua nasica Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 497, figs. 91, LXVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 402. Zoöl. Ser.

COATI. *Pisoti, Tejon*, in Spanish America.

1. Adult — P. State of Vera Cruz, Mexico. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. "Central America." Ward's Nat. Scien. Establ., Rochester, N. Y.
- 3-6. Adult ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
7. Juv. ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.



FIG. LII. NASUA NASICA. COATI.

- 8-9. Adult ♀ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 10-11. Adult — P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 12-13. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 14-15. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 16. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.
- 17. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 18. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 212. **Potos. Kinkajous.**

Potos Cuv. & Geoff., Méth. Mamm., Mag. Encyl., II, 1795, p. 187.

Type *Viverra caudivolvula* Schreber.

Cercoleptes Illig., Prodr. Syst. Mamm. et Av., 1811, p. 127.

743. Potos flavus (Schreber).

Viverra flava Schreb., Säugth., I, 1775, p. 145.

Viverra caudivolvula Schreb., Säugth., III, 1777, p. 453, pl. 125.

KINKAJOU.

1. Adult — P. "Central America"! Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — Pres. — ? Lincoln Park Menagerie, Chicago.

a. Potos flavus chiriquensis Allen.

Potos flavus chiriquensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 72. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 501. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 404. Zoöl. Ser.

CHIRIQUI KINKAJOU.

1-3. Adult ♂ Paratypes. P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

4-6. Adult ♀ Paratypes. P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

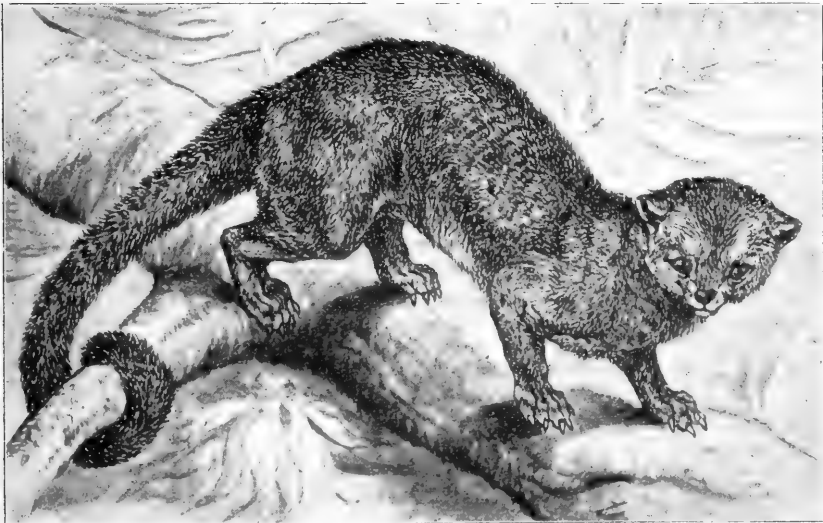


FIG. LIII. *POTOS FLAVUS*. THE KINKAJOU.

b. *Potos flavus megalotus* (Martin).

Cercoleptes megalotus Martin, Proc. Zool. Soc., 1836, p. 81.

Potos flavus megalotus Thos., Ann. Mag. Nat. Hist., 7th Ser., ix, 1902, p. 266.

MARTIN'S KINKAJOU.

1. Adult — P. Bonda, Colombia, South America. H. H. Smith.

Family VII. **Mustelidae. Badgers, Weasels, Otters, etc.**

Subfamily I. **Melinae.**

Genus 213. **Taxidea. Badgers.**

Taxidea Waterh., Proc. Zool. Soc., 1838, pp. 153-154. Type *Ursus labradorius* Gmelin = *Ursus taxus* Schreber.

744. Taxidea taxus (Schreber).

Ursus taxus Schreb., Säugth., III, 1778, p. 520, pl. CXLII B.

Meles taxus var. *B. americanus* Bodd., Elench. Anim., I, 1785, p. 136.

Ursus labradorius Gmel., Syst. Nat., I, 1788, p. 102.

Meles jeffersoni Harl., Faun. Am., 1825, p. 309.

Taxidea americana Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 320, fig. 63. Zool. Ser.

Taxidea taxus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 404. Zool. Ser.

AMERICAN BADGER.

1. Adult ♂ P. Rocky Ford, Otero County, Colorado. B. F. Baymer.

2. Adult ♀ P. Rocky Ford, Otero County, Colorado. B. F. Baymer.

3. Adult — P. Rocky Ford, Otero County, Colorado. B. F. Baymer.

4. Adult ♀ P. Buffalo Lake, Alberta, Canada. G. F. Dippie.

5. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

6. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.

a. *Taxidea taxus neglecta* (Mearns).

Taxidea americana neglecta Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 250. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 321. Zool. Ser.

Taxidea taxus neglecta Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 405. Zool. Ser.

CALIFORNIA BADGER.

1. Adult ♂ Coll. Mt. Whitney, California. E. Heller.
- b. *Taxidea taxus berlandieri* (Baird).
Taxidea berlandieri Baird, N. Am. Mamm., 1857, p. 205.
Taxidea americana berlandieri Elliot, Syn. N. Am. Mamm.,
 F. C. M. Pub., II, 1901, p. 321. Zoöl. Ser.
Taxidea taxus berlandieri Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 500, figs. 93, LXX. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 405. Zoöl. Ser.



FIG. LIV. TAXIDEA T. BERLANDIERI. BERLANDIER'S BADGER.

BERLANDIER'S BADGER.

1. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

Genus 214. **Mydaus.**

Mydaus F. Cuv., Hist. Nat. Mamm., III, 1821, pl. & text. Type
Mydaus meliceps F. Cuvier.

745. *Mydaus marchii* Huet.

Mydaus marchei Huet, Le Naturaliste, 1887, p. 149, fig. 1.

Mydaus schadenbergii Jentink, Notes Leyden Museum, 1895, p. 46, fig. p. 45.

MARCHE'S BADGER.

1. Adult ♂ P. Philippines. Bourns & Worcester.

Genus 215. **Meles.**

Meles Briss., Regn. Anim., 2d ed., 1762, p. 183. Type *Meles meles* Brisson = *Ursus meles* Linnæus.

746. *Meles meles* (Linnæus).

Ursus meles Linn., Syst. Nat., 1, 1758, p. 48; 1, 1766, p. 70.

Meles taxus Bodd., Elench. Anim., 1, 1785, p. 80.

Meles europæus Desm., Nouv. Dict. Hist. Nat., III, 1820, p. 465.

EUROPEAN BADGER.

1. Adult — P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 216. **Mephitis. Skunks.**

Mephitis Cuv., Leçons d'anat. Comp., Class Mamm., 1, 1800, Tabl.

1. Type "*Les Moufettes*."

Chincha Less., Nouv. Tabl. Règn. Anim., 1842, p. 67.

Leucomitra Howell, N. Am. Faun., No. 20, 1901, p. 39, pls. IV, VIII.

Subgenus A. *Chincha*. Large-striped Skunks.**747. *Mephitis mephitis* (Schreber).**

Viverra mephitis Schreb., Säugth., III, 1778, p. 444, Tab. 121.

Mephitis mephitica Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 322, fig. 64. Zoöl. Ser. (Part.)

Mephitis mephitis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

CANADA SKUNK.

1. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.

2-3. Adult ♂ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. J. Rowley.

4. Adult ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.
5. Adult ♀ Coll. Murray Bay, Quebec, Canada. T. Surber.
- 6-7. Adult — P. Ontario, Canada. G. F. Dippie.
- 8-9. Adult — Coll. Park Siding, Iron County, Michigan. C. E. Akeley.
- 10-13. Adult ♂ P. Green Bay, Wisconsin. A. Shubert.
- 14-20. Adult ♀ P. Green Bay, Wisconsin. A. Shubert.
- 21-22. Adult — P. Pewaukee, Wisconsin. C. E. Akeley.

748. *Mephitis hudsonia* (Richardson).

- Mephitis americana* var. *hudsonia* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 55.
- Mephitis mephitica hudsonia* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 322. Zoöl. Ser.
- Mephitis hudsonia* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

NORTHERN PLAINS SKUNK.

1. Adult — P. "Montana." Ward's Nat. Scien. Establ., Rochester, N. Y.

749. *Mephitis olida* Boitard.

- Mephitis putida* G. Cuv., Tab. Élé. Hist. Nat. Anim., 1798, pp. 116, 117. (Indeterminable.) Boitard, Jard. Plantes Paris, Mamm., 1842, p. 147. (Untenable.)
- Mephitis olida* Boitard, Jard. Plantes Paris, Mamm., 1842, p. 147.
- Mephitis fetidissima* Boitard, Jard. Plantes Paris, Mamm., 1842, p. 147.
- Mephitis mephitica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 322. Zoöl. Ser. (Part.)
- Mephitis olida* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

EASTERN SKUNK.

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

750. *Mephitis elongata* (Bangs).

- Mephitis mephitica elongata* Bangs, Proc. Bost. Soc. Nat. Hist., 1895, p. 531.
- Mephitis elongata* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 324. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

FLORIDA SKUNK.

1. Adult ♂ Coll. Enterprise, Florida. T. Surber.

a. Mephitis mesomelas avia (Bangs).

Mephitis avia Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 32.
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 327.
Zoöl. Ser.

Mephitis mesomelas avia Elliot, Check-L. Mamm. N. Amer. Cont.
& W. Indies, F. C. M. Pub., VI, 1905, p. 407. Zoöl. Ser.

ILLINOIS SKUNK.

1. Adult ♂ P. Lawrence, Kansas. J. Rowley.

b. Mephitis mesomelas varians (Gray).

Mephitis varians Gray, Charlesw. Mag. Nat. Hist., I, 1837, p.
581.

Mephitis mesomelas Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
1901, p. 325. Zoöl. Ser. (nec Licht.)

Mephitis mesomelas varians Elliot, Check-L. Mamm. N. Amer.
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 407. Zoöl. Ser.

LONG-TAILED TEXAN SKUNK.

1-2. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

3. Adult ♂ P. Boulder, Colorado. R. T. Young.

751. *Mephitis estor* Merriam.

Mephitis estor Merr., N. Am. Faun., No. 3, 1890, p. 81. Elliot,
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 326. Zoöl.
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.
M. Pub., VI, 1905, p. 407. Zoöl. Ser.

Mephitis mesomelas estor Elliot, Mamm. Middle Amer. & W. In-
dies, F. C. M. Pub., IV, Pt. II, 1904, p. 509. Zoöl. Ser.

ARIZONA SKUNK.

1-2. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat.
Hist. N. Y. W. E. D. Scott.

3. Adult ♀ Exch. Prescott, Arizona. Am. Mus. Nat. Hist.
N. Y. W. E. D. Scott.

4. Adult ♀ P. Santa Catalina Mts., Arizona. W. W. Price.

752. *Mephitis occidentalis* Baird.

Mephitis occidentalis Baird, N. Am. Mamm., 1857, p. 194.
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 324.
Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies.
F. C. M. Pub., VI, 1905, p. 408. Zoöl. Ser.

CALIFORNIA SKUNK.

1. Adult ♀ Coll. Point Reyes, California. E. Heller.

2-4. Adult ♂ Coll. Requa, California. E. Heller.

5-6. Adult ♀ Coll. Requa, California. E. Heller.

7. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

a. Mephitis occidentalis spissigrada (Bangs).

Mephitis spissigrada Bangs, Proc. Biol. Soc. Wash., XII, 1898, p.

31. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 326. Zoöl. Ser.

Mephitis fatulenta Elliot, Pub. Field Columb. Mus., I, 1899, p. 269.

Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 326. Zoöl. Ser.

Mephitis occidentalis spissigrada Elliot, Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 408. Zoöl. Ser.

PUGET SOUND SKUNK.

1-6. Adult — Coll. Port Angeles, Washington. D. G. Elliot.

b. Mephitis occidentalis holzneri Mearns.

Mephitis occidentalis holzneri Mearns, Proc. U. S. Nat. Mus., XX,

1897, p. 461. Elliot, Mamm. Middle Amer. & W. Indies, F.

C. M. Pub., IV, Pt. II, 1904, p. 507, fig. 94. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 409. Zoöl. Ser.

LOWER CALIFORNIA SKUNK.

1. Adult ♂ Coll. Oro Grande, Mohave Desert, California. E. Heller.

2-3. Adult ♀ Coll. Oro Grande, Mohave Desert, California. E. Heller.

753. *Mephitis platyrhina* (Howell).

Chincha platyrhina Howell, N. Am. Faun., No. 20, 1901, p. 39.

Mephitis platyrhina Elliot, Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 409. Zoöl. Ser.

BROAD-NOSED SKUNK.

1. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

Subgenus B. *Leucomitra*. Hooded Skunks.

754. *Mephitis macrura* Lichtenstein.

Mephitis macroura Licht., Darst. neuer oder wenig bekannt.

Säugeth., 1832, pl. XLVI.

Mephitis macrura Elliot, Mamm. Middle Amer. & W. Indies, F.

C. M. Pub., IV, Pt. II, 1904, p. 510, figs. 95, LXXI. Zoöl. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.

Pub., VI, 1905, p. 410. Zoöl. Ser.

HOODED SKUNK.

1. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

2. Adult ♀ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

3. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
4. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
5. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

a. *Mephitis macrura milleri* (Mearns).

Mephitis milleri Mearns, Proc. U. S. Nat. Mus., xx, 1897, p. 467.



FIG. LV. MEPHITIS MACRURA. HOODED SKUNK.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 325. Zoöl. Ser.

Mephitis macrura milleri Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 511. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 410. Zoöl. Ser.

MILLER'S SKUNK.

1-3. Juv. ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

Genus 217. **Conepatus.**

Conepatus Gray, Charlesw. Mag. Nat. Hist., 1837, p. 581. Type *Conepatus humboldtii* Gray.

Marputius Gray, Charlesw. Mag. Nat. Hist., 1837, p. 581.

Thiosmus Licht., Abh. K. Akad. Wiss. Berl., 1838, p. 270.

Ozolictis Glog., Hand-u. Hilfsb. Naturg., 1841, p. 57.

Rhinozolis Glog., Hand-u. Hilfsb. Naturg., 1841, p. 58.

Oryctogale Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 161.

Subgenus A. **Conepatus.**

755.-**Conepatus leuconotus** (Lichtenstein).

Mephitis leuconota Licht., Darst. neuer oder wenig bekannt. Säugeth., 1832, text, pl. XLIV, fig. 1.

Conepatus leuconotus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 515. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 411. Zoöl. Ser.

WHITE-SPOTTED SKUNK.

1. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

a. *Conepatus mesoleucus mearnsi* Merriam.

Conepatus mapurito Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 510, pl. LVI. Zoöl. Ser. (nec Gmelin.)

Conepatus mesoleucus mearnsi Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 163. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 516, figs. 96, LXXII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 411. Zoöl. Ser.

MEARNS'S SKUNK.

1. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.



FIG. LVI. *CONEPATUS M. MEARNSI*. MEARN'S SKUNK.

Subgenus B. *Marputius*.

756. *Conepatus tropicalis* Merriam.

Conepatus tropicalis Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 164. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 517, fig. 97. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 412. Zool. Ser.

MOTZORONGO SKUNK.

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 218. **Spilogale. Little Spotted Skunks.**

Spilogale Gray, Proc. Zool. Soc., 1865, p. 150. Type *Mephitis interrupta* Rafinesque.

757. *Spilogale interrupta* (Rafinesque).

Mephitis interrupta Rafin., Ann. Nat., I, 1820, p. 3.

Mephitis bicolor Gray. Charlesw. Mag. Nat. Hist., I, 1837, p. 581.

Mephitis quaterlinearis Winans, in Coues, Fur-bear. Anim., 1877, p. 239.

Spilogale interrupta Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 328. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 523, figs. 98, LXXIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 412. Zoöl. Ser.



FIG. LVII. SPILOGALE INTERRUPTA. WHITE-SPOTTED SKUNK.

WHITE-SPOTTED SKUNK.

- 1-4. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 5. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 6-7. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 8. Adult ♀ P. Lawrence, Kansas. J. Rowley.

758. *Spilogale ringens* Merriam.

Spilogale ringens Merr., N. Am. Faun., No. 4, 1890, p. 9. Elliot. Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 329. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 413. Zoöl. Ser.

GROWLING SPOTTED SKUNK.

- 1. Adult ♀ Topotype. Exch. Greensboro, Alabama. Am. Mus. Nat. Hist. N. Y. W. C. Avery.

759. *Spilogale indianola* Merriam.

Spilogale indianola Merr., N. Am. Faun., No. 4, 1890, p. 10.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 329.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,
 F. C. M. Pub., VI, 1905, p. 413. Zool. Ser.

INDIANOLA SPOTTED SKUNK.

1. Adult ♂ Exch. Rockford, Texas. Am. Mus. Nat. Hist. N. Y.
 H. D. Attwater.

760. *Spilogale tenuis* Howell.

Spilogale tenuis Howell, Proc. Biol. Soc. Wash., xv, 1902, p. 241.
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., VI, 1905, p. 413. Zool. Ser.

SLENDER SPOTTED SKUNK.

1. Adult ♂ P. Boulder, Colorado. R. T. Young.

761. *Spilogale phenax* Merriam.

Spilogale phenax Merr., N. Am. Faun., No. 4, 1890, p. 13. Elliot,
 Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 331. Zool.
 Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.
 M. Pub., VI, 1905, p. 414. Zool. Ser.

CHEATING SPOTTED SKUNK.

1. Adult ♂ P. Snow Mts., Colusa County, California. W. W.
 Price.
2. Adult ♀ Topotype. Exch. Nicasio, California. Am. Mus.
 Nat. Hist. N. Y. C. A. Allen.
- 3-6. Adult ♂ Coll. Petaluma, California. E. Heller.
- 7-8. Adult ♀ Coll. Petaluma, California. E. Heller.
9. Adult ♂ Coll. Fort Tejon, California. E. Heller.
10. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 11-12. Adult ♂ Coll. Marshfield, Oregon. E. Heller.

a. *Spilogale phenax latifrons* Merriam.

Spilogale phenax latifrons Merr., N. Am. Faun., No. 4, 1890, p.
 15. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p.
 331. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &
 W. Indies, F. C. M. Pub., VI, 1905, p. 414. Zool. Ser.

BROAD-HEADED SPOTTED SKUNK.

1. Adult — P. "Tacoma," Washington. Ward's Nat. Scien.
 Establ., Rochester, N. Y.
2. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
3. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
- 4-5. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 6-7. Adult ♀ Coll. Gardiner, Oregon. E. Heller.

- 8-9. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 10. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 11-12. Adult ♂ Coll. Beaverton, Oregon. E. Heller.
- 13. Adult ♀ Coll. Beaverton, Oregon. E. Heller.

a. Spilogale arizonæ martirensis Elliot.

Spilogale arizonæ martirensis Elliot, Pub. Field Columb. Mus., III, 1903, p. 170. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 521. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 414. Zoöl. Ser.

SAN PEDRO MARTIR SPOTTED SKUNK.

- 1-2. Adult ♂ Type and paratype. Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

762. *Spilogale olympica* Elliot.

Spilogale olympica Elliot, Pub. Field Columb. Mus., I, 1899, p. 270. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 332. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 415. Zoöl. Ser.

OLYMPIC MOUNTAINS SPOTTED SKUNK.

- 1. Adult ♂ Type. Coll. Port Angeles, Washington. D. G. Elliot.
- 2-6. Adult — Paratypes. Coll. Port Angeles, Washington. D. G. Elliot.

763. *Spilogale ambarvalis* Bangs.

Spilogale ambarvalis Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 222. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 332. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 415. Zoöl. Ser.

FIELD SPOTTED SKUNK.

- 1. Adult ♂ Coll. Micco, Florida. T. Surber.
- 2. Adult ♂ Topotype. Coll. Oak Lodge, Florida. T. Surber.

764. *Spilogale gracilis* Merriam.

Spilogale gracilis Merr., N. Am. Faun., No. 4, 1890, p. 83. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 330. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 415. Zoöl. Ser.

GRACEFUL SKUNK.

- 1-3. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.

- 4-6. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
7. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.
8. Adult ♀ P. Huachuca Mts., Arizona. W. W. Price.

Subfamily II. **Mustelinæ.**

Genus 219. **Gulo. Wolverine.**

Gulo Frisch. Das Nat.-Syst. vierfüss. Thiere, in Tabellen. 17. Tab. Gen., 1775. Type *Mustela gulo* Linnæus.

765. **Gulo luscus** (Linnæus).

Ursus luscus Linn., Syst. Nat., I, 1758, p. 47.

Gulo luscus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 333. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 416. Zoöl. Ser.

WOLVERINE.

1. Adult — P. Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-4. Adult — P. Canterbury Station, New Brunswick, Canada. C. F. Periolat.

766. **Gulo luteus** Elliot.

Gulo luteus Elliot, Pub. Field Columb. Mus., III, 1903, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 417. Zoöl. Ser.

BUFF-COLORED WOLVERINE.

1. Adult — Pres. Yakutat, Alaska. T. Trelease.
2. Juv. ♂ Type. Coll. Mt. Whitney, California. E. Heller.

767. **Gulo hylæus** Elliot.

Gulo hylæus Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 81. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 417. Zoöl. Ser.

MOUNT MCKINLEY WOLVERINE.

- 1-6. Adult — Type and paratypes. P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.

Genus 220. **Galera. The Grisons.**

Galera Browne, Civil and Naval Hist. Jamaica, 2d ed., 1789. p. 485. Type *Mustela barbara* Linnæus.

Grison Oken, Lehrb. der Naturg., Zool., II, 1816, pp. XI, 1000.

Tayra Oken, Lehrb. der Naturg., Zool., II, 1816, p. 1001.

Grisonia Gray, Thos. Ann. Phil., XXVI, 1825, p. 339.

Laira F. Cuv., Hist. Nat. Mamm., V, 1826, livr. XLV.

Galictis Bell, Zool. Jour., II, 1826, p. 551.

Galidictis I. Geoff., Mag. Zool., Mamm., 1839, p. 32.

Sugbenus A. *Tayra*.

768. *Galera barbara* (Linnæus).

Mustela barbara Linn., Syst. Nat., I, 1758, p. 46; I, 1766, p. 67.

Viverra poliocephala Traill, Mem. Wern. Soc., III, p. 440, pl. XXII.

SOUTH AMERICAN GRISON.

1. Adult — P. Rio Janeiro, South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Galera barbara irara (Allen).

Tayra barbara irara Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 37.

COLOMBIAN GRISON.

1. Adult — P. Minca, Colombia, South America. H. H. Smith.
2. Adult — P. Don Diego, Colombia, South America. H. H. Smith.

Genus 221. ***Mustela*. Martens or Sables, Fishers.**

Mustela Linn., Syst. Nat., I, 1758, p. 45; I, 1766, p. 66. Type *Mustela martes* Linnæus.

769. *Mustela americana* Turton.

Mustela martes Forst., Phil. Trans., 1772, p. 372. (nec Linn.)

Mustela zibellina Pall., Spicil. Zool., XIV, 1780?, p. 57. *Id.* Zoog. Rosso-Asiat., I, 1831, p. 84. (nec Linn.)

Mustela americanus Turton, Linn. Syst. Nat., I, 1806, p. 60.

Mustela vulpina Rafin., Am. Jour. Scien., I, 1819, p. 82.

Mustela leucopus Kuhl, Beitr. Zool. u. Anat., 1820, p. 74.

Mustela huro F. Cuv., Dict. Scien. Nat., XXIX, 1823, p. 256.

Mustela americana Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 334, fig. 66. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 419. Zool. Ser.

AMERICAN MARTEN, HUDSON BAY SABLE.

1. Adult — P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.

- 2-3. Adult ♀ Exch. Trousers Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
4. Adult ♂ P. Haliburton County, Ontario, Canada. G. F. Dippie.
5. Adult ♀ P. Haliburton County, Ontario, Canada. G. F. Dippie.
6. Adult ♂ P. French River, Georgian Bay, Ontario, Canada. G. F. Dippie.
7. Adult — P. Florence County, Wisconsin. C. E. Akeley.

u. Mustela americana actiosa Osgood.

Mustela americana actiosa Osgood, N. Am. Faun., No. 19, 1900, p. 43. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 336. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 420. Zoöl. Ser.

ACTIVE MARTEN.

1-10. Adult — P. Unalaklik, Alaska. C. F. Periolat.

770. *Mustela boria* Elliot.

Mustela boria Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 139. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 421. Zoöl. Ser.

FARTHEST NORTH MARTEN.

1-5. Adult — Type and paratypes. P. Lower Mackenzie River District, Alaska. C. F. Periolat.

771. *Mustela kenaiensis* (Elliot).

Mustela americana kenaiensis Elliot, Pub. Field Columb. Mus., III, 1903, p. 151, pl. xxxii. Zoöl. Ser.

Mustela kenaiensis Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 421. Zoöl. Ser.

KENAI PENINSULA MARTEN.

1-6. Adult — Type and paratypes. P. Kenai Peninsula, Alaska. C. F. Periolat.

u. Mustela caurina origenes Rhoads.

Mustela caurina origenes Rhoads, Proc. Acad. Nat. Scien. Phil., 1902, p. 458. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 422. Zoöl. Ser.

ROCKY MOUNTAIN MARTEN.

1. Adult ♂ P. Boulder County, Colorado. R. T. Young.
- 2-4. Adult ♀ P. Boulder County, Colorado. R. T. Young.

772. *Mustela canadensis* Schreber.

Mustela canadensis Schreb., Säugth., III, 1778, p. 492, pl. cxxiv,

1776. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 422. Zoöl. Ser.

Mustela pennanti Erxl., Syst. Regn. Anim., 1777, p. 470. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 337. Zoöl. Ser.

Mustela melanorhyncha Bodd., Elench. Anim., 1785, p. 88.

Viverra piscator Shaw, Gen. Zoöl., I, 1800, p. 414.

Mustela nigra Turton, Linn. Syst. Nat., I, 1806, p. 60.

Mustela godmani Fisch., Syn. Mamm., 1829, p. 217.

PENNANT'S FISHER.

1. Adult — P. Maine. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3. Adult — P. Park Siding, Michigan. Rheinbold.

4. Adult ♂ P. Amasa, Iron County, Michigan. C. E. Akeley.

a. *Mustela canadensis pacifica* Rhoads.

Mustela canadensis pacifica Rhoads, Trans. Am. Philos. Soc., 1898, p. 435. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 423. Zoöl. Ser.

Mustela pennanti pacifica Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 337. Zoöl. Ser.

PACIFIC FISHER.

1. Adult ♂ Coll. Solduc Trail, Olympic Mts., Washington. D. G. Elliot.

2. Adult ♀ Coll. Barnes Creek, Lake Crescent, Washington. D. G. Elliot.

773. *Mustela foina* Erxleben.

Mustela foina Erxl., Syst. Regn. Anim., 1777, p. 458.

BEECH MARTEN.

1. Adult — P. Europe. Ward's Nat. Scien. Establ., Rochester, N. Y.

774. *Mustela flavigula* Boddaert.

Mustela flavigula Bodd., Elench. Anim., 1785, p. 88.

Martes flavigula Blyth, Jour. Asiat. Soc. Beng., xxvi, p. 316.

Galidictis chrysogaster Jard., Nat. Lib., XIII, 1842, p. 167, pl. VII.

INDIAN MARTEN.

1. Adult — P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

775. *Mustela henrici* Westermann.

Mustela henrici Westerm., Bydr. Dierk., I, 1849, p. 13, pl. I.

EAST INDIES MARTEN.

1. Adult — P. Sumatra. Ward's Nat. Scien. Establ., Rochester, N. Y.

776. *Mustela melampus* Temminck.

Mustela melampus Temm., Faun. Japon., 1842, p. 31, pl. VII, figs. 3-4.

Martes melanopus Gray, Proc. Zool. Soc., 1865, p. 105.

JAPANESE MARTEN.

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 222. *Putorius*. Mink, Weasels.

***Putorius* Frisch.** Das Nat.-Syst. vierfüss. Thiere, in Tabellen, XI, Tab. Gen., 1775. Type *Mustela putorius* Linnæus.

Arctogale Kaup, Entw.-Gesch. Nat. Syst. der Europ. Thierw., I, 1829, p. 30. (nec Peters.)

Ictis Kaup, Entw.-Gesch. Nat. Syst. der Europ. Thierw., I, 1829, p. 40.

Gale Wagn., Schreb. Säugth., Suppl., II, 1841, p. 234.

Lutreola Wagn., Schreb. Säugth., Suppl., II, 1841, p. 239.

Vison Gray, List Spec. Mamm. Brit. Mus., 1843, p. 64.

Neogale Gray, Proc. Zool. Soc., 1865, p. 114.

Cynomyonax (sic) Coues, Fur-bear. Anim., 1877, p. 147.

Subgenus A. *Lutreola*. Mink.**777. *Putorius vison* (Schreber).**

Mustela lutreola Forst., Phil. Trans., LXII, 1772, p. 371. (nec Linn.)

Mustela vison Schreb., Säugth., III, 1777, p. 463.

Mustela canadensis Erxl., Syst. Regn. Anim., I, 1777, p. 455. (nec *M. l. canadensis* Schreber, 1777.)

Mustela winingus Barton, Am. Phil. Trans., VI, 1809, p. 70.

Mustela minx Ord, Guth. Geog., 2d Amer. ed., II, 1815, p. 291.

Mustela lutrecephala Harl., Faun. Amer., 1825, p. 63.

Putorius nigrescens Aud. & Bach., Quad. N. Amer., III, 1853, p. 104, pl. cxxiv.

Putorius vison Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 338, fig. 67. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 423. Zool. Ser.

Putorius vison lutrecephalus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 339. Zool. Ser.

COMMON MINK.

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — Pres. Hicksville, Ohio. H. Meek.
3. Adult ♂ P. Winnipeg, Manitoba. C. K. Worthern.
4. Adult — Pres. Park Siding, Michigan. C. E. Akeley.
5. Adult ♂ P. Branchtown, Ontario, Canada. G. F. Dippie.
6. Adult ♀ P. Branchtown, Ontario, Canada. G. F. Dippie.
7. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
8. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
9. Adult ♂ Coll. Lake Edward, Quebec, Canada. T. Surber.
10. Adult ♀ Coll. Lake Edward, Quebec, Canada. T. Surber.
11. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
12. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
13. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 14-15. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
16. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
17. Adult ♂ Coll. Pres. Dowagiac, Michigan. C. L. Dewey.

a. Putorius vison energumenus Bangs.

Putorius vison energumenus! Bangs, Proc. Bost. Soc. Nat. Hist., 1896, p. 5.

Putorius vison energumenus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 340. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 424. Zoöl. Ser.

DEVILISH MINK.

- 1-3. Adult — Coll. Port Angeles, Washington. D. G. Elliot.

778. *Putorius melampeplus* (Elliot).

Putorius vison melampeplus Elliot, Pub. Field Columb. Mus., III, 1903, p. 170. Zoöl. Ser.

Putorius melampeplus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 425. Zoöl. Ser.

DARK-HUED MINK.

1. Adult ♂ Type. P. Kenai Peninsula, Alaska. C. F. Periolat.
- 2-3. Adult — Paratypes. P. Kenai Peninsula, Alaska. C. F. Periolat.

Subgenus B. *Cynomyanax*.**779. *Putorius nigripes* Audubon & Bachman.**

- Putorius nigripes* Aud. & Bachm., Quad. N. Am., II, 1851, p. 297. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 341, fig. 68. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 425. Zool. Ser.

BLACK-FOOTED MINK.

1. Adult ♀ P. Gleichen, Alberta, Canada. G. F. Dippie.

Subgenus C. *Arctogale*. Weasels.**780. *Putorius cicognani* (Bonaparte).**

- Mustela (Putorius) vulgaris* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 45. (nec Brisson.)

- Mustela cicognanii* Bonap., Iconog. Faun. Ital., I, fasc. XXII, 1838, p. 4.

- Putorius cicognani* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 344, fig. 69. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 426. Zool. Ser.

COMMON WEASEL.

1. Adult — Pres. Fort Sheridan, Illinois. H. K. Coales.
2. Adult — Pres. Tomahawk Lake, Wisconsin. H. T. Chace.
3. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 4-5. Adult ♂ P. Aitkin, Minnesota. C. K. Worthern.
6. Adult ♂ P. Chilliwack, British Columbia, Canada. G. F. Dippie.
7. Adult ♂ P. Sumas, British Columbia, Canada. G. F. Dippie.
8. Adult ♀ P. Carpenters Mt., British Columbia, Canada. C. K. Worthern.
9. Juv. ♂ P. Carpenters Mt., British Columbia, Canada. C. K. Worthern.
10. Adult ♂ P. Simcoe Co., Ontario, Canada. G. F. Dippie.
11. Adult ♂ P. Gooderham, Ontario, Canada. G. F. Dippie.

a. Putorius cicognani richardsoni (Bonaparte).

- Mustela richardsonii* Bonap., Charlesw. Mag. Nat. Hist., II, 1838, p. 38.

- Putorius cicognani richardsoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 344. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 426. Zool. Ser.

RICHARDSON'S WEASEL.

1. Adult ♂ P. Forks of Blindman and Red Deer Rivers, Alberta, Canada. G. F. Dippie.
2. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
3. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
4. Adult — P. Revelstoke, Alberta, Canada. G. F. Dippie.
5. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthern.
6. Adult ♂ Coll. Minot, N. Dakota. W. E. Snyder.

781. *Putorius streator* Merriam.

Putorius streator Merr., N. Am. Faun., No. 11, 1896, p. 13. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 427. Zoöl. Ser.

STREATOR'S WEASEL.

- 1-2. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
3. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
4. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
5. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
6. Adult ♂ Coll. Beaverton, Oregon. E. Heller.
7. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
8. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

a. Putorius streator leptus Merriam.

Putorius streator leptus Merr., Proc. Biol. Soc. Wash., xvi, 1903, p. 76. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 427. Zoöl. Ser.

FEEBLE WEASEL.

1. Adult ♀ P. Boulder County, Colorado. R. T. Young.

782. *Putorius rixosus* Bangs.

Putorius rixosus Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 21. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 428. Zoöl. Ser.

PUGNACIOUS WEASEL.

1. Adult ♂ P. Forks of Blindman & Red Deer Rivers, Alberta, Canada. G. F. Dippie.

783. *Putorius arcticus* Merriam.

Putorius arcticus Merr., N. Am. Faun., No. 11, 1896, p. 15. Elliot,

Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 428. Zoöl. Ser.

ARCTIC WEASEL.

1. Adult ♂ P. Howkan, Alaska. G. G. Cantwell.

a. *Putorius arcticus kadiacensis* Merriam.

Putorius arcticus kadiacensis Merr., N. Am. Faun., No. 11, 1896, p. 16. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 428. Zoöl. Ser.

KADIAK ISLAND WEASEL.

1. Adult — Topotype. Pres. Kadiak Island, Alaska. G. F. Sargent.

784. *Putorius noveboracensis* Emmons.

Putorius noveboracensis Emmons, Rep. Quad. Mass., 1840, p. 45. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

NORTHERN WEASEL.

1. Adult ♂ Pres. Bloomingdale Spring, Illinois. B. T. Gault.
2. Adult ♀ Pres. Milton Spring, Du Page Co., Illinois. B. T. Gault.
3. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
4. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult — Pres. Erie, Pennsylvania. G. B. Sennett.
- 6-7. Adult ♂ P. Branchtown, Ontario, Canada. G. F. Dippie.
8. Adult ♀ P. Waterloo County, Ontario, Canada. G. F. Dippie.
9. Adult ♂ P. Orillia, Lake Simcoe, Ontario, Canada. G. F. Dippie.
10. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Putorius noveboracensis notius* Bangs.

Putorius noveboracensis notius Bangs, Proc. N. Eng. Zoöl. Club, 1, 1899, p. 53. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

SOUTHERN WEASEL.

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.

785. *Putorius washingtoni* Merriam.

Putorius washingtoni Merr., N. Am. Faun., No. 11, 1896, p. 18.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 347.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

WASHINGTON WEASEL.

1. Adult ♀ Coll. Happy Lake; Olympic Mts., Clallam County, Washington. D. G. Elliot.

786. *Putorius peninsulæ* Rhoads.

Putorius peninsulæ Rhoads, Proc. Acad. Nat. Scien. Phil., 1894,

p. 152. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901,

p. 347. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

FLORIDA WEASEL.

1. Adult — Coll. Enterprise, Florida. T. Surber.

787. *Putorius longicaudus* (Bonaparte).

Mustela (Putorius) erminea Rich., Faun. Bor. Amer., Mamm., 1,

1829, p. 46. (Part.)

Mustela longicauda Bonap., Charlesw. Mag. Nat. Hist., 11, 1838,

p. 38.

Putorius longicaudus Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

11, 1901, p. 348. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 430. Zoöl. Ser.

LONG-TAILED WEASEL.

1. Adult ♂ P. Eagle Creek, Montana. E. Seton Thompson.
2. Adult ♂ P. Boulder, Colorado. R. T. Young.
3. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
4. Adult ♀ P. Orillia, Lake Simcoe, Canada. G. F. Dippie.
5. Adult ♂ P. Branchtown, Ontario, Canada. G. F. Dippie.
6. Adult ♂ P. Gooderham, Ontario, Canada. G. F. Dippie.
7. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 8-11. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.
- 12-13. Adult ♀ P. Calgary, Alberta, Canada. G. F. Dippie.
14. Adult ♂ P. Carmen, Manitoba, Canada. G. F. Dippie.

a. *Putorius longicaudus spadix* Bangs.

Putorius longicauda spadix Bangs, Proc. Biol. Soc. Wash., x,

1896, p. 8.

Putorius spadix Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11,

1901, p. 348. Zoöl. Ser.

Putorius longicaudus spadix Elliot, Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 430. Zoöl. Ser.

CHESTNUT-BROWN WEASEL.

1. Adult ♂ Topotype. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

788. *Putorius arizonensis* Mearns.

Putorius arizonensis Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 234. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 349. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zool. Ser.

ARIZONA WEASEL.

1. Adult ♂ P. Mt. Siegel, Nevada. W. W. Price.
2. Adult ♂ P. Silver Lake, Boulder County, Colorado. R. T. Young.

789. *Putorius xanthogenys* (Gray).

Mustela xanthogenys Gray, Ann. Mag. Nat. Hist., 1st Ser., XI, 1843, p. 118.

Putorius xanthogenys Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 349. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zool. Ser.

YELLOW-CHEEKED WEASEL.

1. Adult ♂ P. Palo Alto, California. E. Heller.
2. Adult ♂ Pres. Palo Alto, California. A. G. Maddren.
3. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
4. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.

a. Putorius xanthogenys mundus Bangs.

Putorius xanthogenys mundus Bangs, Proc. N. Eng. Zool. Club, 1, 1899, p. 56. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 350. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zool. Ser.

DECORATED WEASEL.

1. Adult ♂ Coll. Nicasio, California. E. Heller.
2. Adult ♀ Topotype. Coll. Point Reyes, California. E. Heller.

b. Putorius xanthogenys oregonensis Merriam.

Putorius xanthogenys oregonensis Merr., N. Am. Faun., No. 11, 1896, p. 25. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 350. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zool. Ser.

OREGON WEASEL.

- 1-2. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
3. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

790. *Putorius frenatus* (Lichtenstein).

Mustela frenata Licht., Darst. neuer oder wenig bekannt. Säugeth., 1832, pl. XLII.

Putorius frenatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 350. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 532, figs. 101, LXXV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 432. Zoöl. Ser.



FIG. LVIII. *PUTORIUS FRENATUS*. BRIDLED WEASEL.

BRIDLED WEASEL.

1. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. E. C. Greenwood.
2. Adult ♀ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

791. *Putorius macrophonus* Elliot.

Putorius macrophonus Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 235.

GIANT WEASEL.

1. Adult ♂ Type. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
2. Juv. ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

Subfamily III. **Lutrinæ.**Genus 223. **Lutra. Otters.**

Lutra Briss., Regn. Anim., 2d ed., 1762, p. 201. Type *Mustela lutra* Linnæus.

Lataxina Gray, List Spec. Mamm. Brit. Mus., 1843, pp. XXI, 70.

Lataxia Gerv., Hist. Nat. Mamm., II, 1855, p. 118.

792. Lutra vulgaris Erxleben.

Lutra vulgaris Erxl., Syst. Regn. Anim., 1777, p. 448.

Lutra nair F. Cuv., Dict. Scien. Nat., XXVII, 1823, p. 247.

Lutra roensis Ogilby, Proc. Zool. Soc., 1834, p. 111.

Lutronectes whiteleyi Gray, Proc. Zool. Soc., 1867, p. 180, fig.

COMMON OTTER.

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

793. Lutra canadensis (Schreber).

Mustela lutra canadensis Schreb., Säugth., text, 1778, pl. cxxvi B, 1776.

Mustela (Lutra) canadensis Kerr, Anim. Kingd., 1792, No. 337.

Lutra lataxina F. Cuv., Dict. Scien. Nat., 1823, XXVII, p. 213.

Lutra hudsonica F. Cuv., Suppl. Buffon, I, 1831, p. 194.

Lataxina mollis Gray, List Spec. Mamm. Brit. Mus., 1843, p. 70.

Lutra canadensis Aud. & Bachm., Quad. N. Am., III, 1853, p. 97, pl. cxxii (Fig. type of *Lataxina mollis* Gray). Elliot, Syn. N.

Am. Mamm., F. C. M. Pub., II, 1901, p. 352. Zool. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 433. Zool. Ser.

CANADA OTTER.

1. Adult — P. "South Carolina." Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Eagle Lake, Wisconsin. C. E. Akeley.

a. Lutra canadensis pacifica (Rhoads).

Lutra hudsonica pacifica Rhoads, Trans. Am. Phil. Soc., N. S., XIX, 1898, p. 429.

Lutra canadensis pacifica Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 353. Zool. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 434.

Zool. Ser.

PACIFIC OTTER.

1-3. Adult — P. Kenai Peninsula, Alaska. C. F. Perolat.

Genus 224. **Latax.** Sea Otters.

Latax Glog., Nov. Acta Phys. Med. Acad. Cæs. Leop.-Carol., XIII, Pt. II, 1827, p. 511. Type *Lutra marina* Erxleben = *Mustela lutris* Linnæus.

Pusa Oken, Lehrb. der Naturg., Thiel. III, 2te Abth., 1816, p. 986. (nec Scopoli.)

Enhydra Flem., Phil. Zoöl., II, 1822, p. 187. (nec *Enhydris* Merrem, Rept.)



FIG. LIX. LATAX LUTRIS. NORTHERN SEA OTTER.

794. * *Latax lutris* (Linnæus).

Mustela lutris Linn., Syst. Nat., I, 1758, p. 45; I, 1766, p. 66.

Lutra marina Erxl., Syst. Reg. Anim., 1777, p. 445.

Pusa orientalis Oken, Lehrb. der Naturg., Thiel III, 2te Abth., 1816, p. 986.

**Latax lutris* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 537, Zoöl. Ser., (nec pl. LII,) may more properly refer to the *Latax lutris nereis* Merr. rather than to the present species.

Lutra stelleri Less., Man. Mamm., 1827, p. 156.

Enydria (sic) *gracilis* Fisch., Syn. Mamm., 1829, p. 229.

Latax lutris Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,
p. 354, pl. xxxviii. Zoöl. Ser. *Id.* Check-L. Mamm. N.
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 436.
Zoöl. Ser.

NORTHERN SEA OTTER.

1-2. Juv. — P. Alaska. Ward's Nat. Scien. Establ., Rochester,
N. Y.

Order VIII. **Pinnipedia. Sea-lions, Seals, etc.**

Family I. **Otariidæ. Sea-lions.**

Genus 225. **Eumetopias.**

Eumetopias Gill, Proc. Essex Institute, v, 1866, pp. 7, 11. Type
Otaria stelleri Lesson = *Phoca jubata* Schreber.

795. Eumetopias jubata (Schreber).

Phoca jubata Schreb., Säugth., III, 1778, p. 300, pl. LXXXIII B.

Otaria jubata Péron and Lesueur, Voy. Terr. Austr., III, 1816, p. 40.

Otaria stelleri Less., Dict. Class. Hist. Nat., XIII, 1828, p. 420.

Phoca leonina Pall., Zoog. Rosso-Asiat., I, 1831, p. 104.

Arctocephalus monteriensis Gray, Proc. Zool. Soc., 1859, p. 358,
pl. LXXII.

Eumetopias stelleri Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
II, 1901, p. 355, pl. XXXIX. Zool. Ser.

Eumetopias jubata Elliot, Check-L. Mamm. N. Amer. Cont. &
W. Indies, F. C. M. Pub., VI, 1905, p. 437. Zool. Ser.

STELLER'S SEA-LION.

1. Adult — P. California. Ward's Nat. Scien. Establ., Roches-
ter, N. Y.

Genus 226. **Callotaria. Fur Seal.**

- **Callotaria** Palmer, Proc. Biol. Soc. Wash., VII, 1892, p. 156. Type
Phoca ursina Linnæus.

Callorhinus Gray, Proc. Zool. Soc., 1859, p. 359. (nec Blanchard,
1850, Entomol.; nec Girard, 1857, Herpetology.)

Arctocephalus Gill, Proc. Essex Inst., v, 1866, pp. 7, 11. (nec
F. Cuvier.)

Otoes Palmer, Proc. Biol. Soc. Wash., XIV, 1901, p. 133. (nec
Fischer, 1817.)

796. Callotaria alascana (Jordan & Clark).

Callorhinus alascanus Jord. & Clark, The Fur Seals and Fur Seal
Islands, Pt. 3, 1899, p. 2.

Callotaria ursina Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
1901, p. 357, pl. XL. Zool. Ser. (nec Linnæus.)



FIG. LX. GROUP OF FUR SEALS OR SEA-BEARS.

Callotaria alascana Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 438. Zool. Ser.

PRIBILOF ISLANDS FUR SEAL.

1. Adult ♂ P. Pribilof Islands. C. H. Gilbert.
2. Adult ♀ P. Pribilof Islands. C. H. Gilbert.
- 3-4. Juv. — P. Pribilof Islands. C. H. Gilbert.
5. Adult ♂ P. St. Paul Island, Alaska. Ward's Nat. Scien. Establ., Rochester, N. Y.
6. Adult ♀ P. St. Paul Island, Alaska. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family II. **Odontobænidae.**

Genus 227. **Odontobænus.** Walrus.

Odobenus (sic) Briss., Reg. Anim., 2d ed., 1762, pp. 12, 30. Type
Phoca rosmarus Linnæus.

797. *Odontobænus rosmarus* (Linnæus).

Phoca rosmarus Linn., Syst. Nat., 1, 1758, p. 38.

Trichechus rosmarus Linn., Syst. Nat., 1, 1766, p. 49. Elliot, Syn.

N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 358. pl. xli.

Zoöl. Ser.

Odontobænus rosmarus Elliot, Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 439. Zoöl. Ser.

ATLANTIC WALRUS.

1-2. Adult — Exch. West Coast of Greenland. Am. Mus. Nat.

Hist. N. Y. L. S. Dyche.

3-6. Juv. — Exch. West Coast of Greenland. Am. Mus. Nat.

Hist. N. Y. L. S. Dyche.

798. *Odontobænus obesus* (Illiger).

Trichechus rosmarus Shaw, Gen. Zoöl., 1, 1800, p. 234, fig. 68.

(Part.)

Trichechus obesus Illig., Abhandl. d. Akad. Berl., 1815, pp. 64, 70,

75. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p.

358. Zoöl. Ser.

Trichechus divergens Illig., Abhandl. d. Akad. Berl., 1815, p. 68.

Rosmarus cookii Fremery, Bydrag. tot de natuurk. Wetensch.,

VI, 1831, p. 385.

Rosmarus arcticus Pall., Zoog. Rosso-Asiat., 1831, p. 269, pls.

xxviii, xxix.

Odontobænus obesus Elliot, Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., VI, 1905, p. 439. Zoöl. Ser.

PACIFIC WALRUS.

1. Adult ♂ P. Pacific Ocean. Ward's Nat. Scien. Estab., Rochester, N. Y.

Family III. *Phocidæ*. Sea Elephants, Seals.**Subfamily I. *Cystophorinæ*.****Genus 228. *Mirounga*. Sea Elephants.**

Mirounga Gray, in Griff., Cuvier's Anim. Kingd., v, 1827, p. 179.

(Part.) Type *Phoca proboscidea* Péron = *Phoca leonina* Linnæus.

Macrorhinus F. Cuv., Dict. Scien. Nat., xxxix, 1826, p. 552. (nec

Latreille, 1825, Coleopt.)

Rhinophoca Wagl., Nat. Syst. Amph., 1830, p. 27.

Morunga Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xxiii, 103. *Id.* Zoöl. Voy. 'Erebus and Terror,' Mamm., 1844, p. 4.

799. *Mirounga leonina* (Linnæus).

Phoca leonina Linn., Syst. Nat., 1758, p. 37. Schreb., Säugth., III, 1776, p. 297, pl. LXXXIII A.

Phoca elephantina Molina, Sag. Stor. Nat. Chili, 1782, p. 280.

Phoca proboscidea Péron & Lesueur, Voy. aux Terres Austr., II, 1816, p. 34. Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 550, pl. G44, fig. 2. *Id.* Mamm., I, 1820, p. 238.

Phoca resima Péron & Lesueur, Voy. aux Terres Austr., II, 1816, p. 65.

Phoca coxii Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 559.

Phoca ansonii Blainv., Journ. de Phys., xci, 1820, pp. 299, 300. Desm., Mamm., I, 1820, p. 239.

Mirounga proboscidea Gray, Griffith's Anim. Kingd., v, 1827, p. 180.

Mirounga patagonica Gray, Griff. Anim. Kingd., v, 1827, p. 180.

Phoca dubia Fisch., Syn. Mamm., 1829, p. 235.

Cystophora proboscidea Nilss., Arch. f. Naturg., I, 1841, p. 323.

Morunga elephantina Gray, Zoöl. Voy. 'Erebus & Terror,' Mamm., 1844, pp. 4, 8, pls. ix, x.

Morunga proboscidea Sclat., Proc. Zoöl. Soc., 1868, p. 227.

Cystophora falklandica Peters, Monatsb. Akad. Berl., 1875, p. 394.

Cystophora kerguelensis Peters, Monatsb. Akad. Berl., 1875, p. 394.

Macrorhinus leoninus Allen, N. Am. Pinnipeds, 1880, p. 466.

SOUTHERN ELEPHANT SEAL.

1. Juv. ♀ P. Kerguelen Island. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Macquarie Islands, Antarctic Region. Tring Museum, England.

800. *Mirounga angustirostris* (Gill).

Macrorhinus angustirostris Gill, Proc. Chicago Acad. Scien., 1866, p. 33. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 359, pls. XLII, XLIII, XLIV. Zoöl. Ser.

Mirounga angustirostris Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 545, fig. LXXX, pls. LXIII, LXIV, LXV, LXVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 440. Zoöl. Ser.

ELEPHANT SEAL.

1. Juv. ♀ P. Lower California. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 229. **Phoca. Hair Seals.**

Phoca Linn., Syst. Nat., 1, 1758, p. 37. Type *Phoca vitulina* Linnæus.

Pusa Scopoli, Intr. Hist. Nat., 1777, p. 490.

Calocephalus F. Cuv., Dict. Scien. Nat., xxxix, 1826, p. 544.

Pagophilus Gray, Zool. Voy. 'Erebus & Terror,' Mamm., 1844, p. 3.

Pagomys Gray, Proc. Zool. Soc., 1864, p. 31.

Erignathus Gill, Proc. Essex Inst., v, 1866, pp. 5, 9.

Haliphilus Gray, Ann. Mag. Nat. Hist., 4th Ser., xvii, 1866, p. 446.

Histriophoca Gill, Amer. Nat., vii, 1873, p. 179.

Subgenus A. **Phoca.****801. Phoca vitulina** Linnæus.

Phoca vitulina Linn., Syst. Nat., 1, 1758, p. 38; 1, 1766, p. 56.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 363,

pl. XLIX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., vi, 1905, p. 442. Zool. Ser.

Phoca variegata Nilss., Skand. Faun., 1, 1820, p. 359.

Phoca scopulicola Thienem., Reis. Nord. Eur., 1, 1824, p. 59, pl. v. (ad. male.)

Phoca littorea Thienem., Reis. Nord. Eur., 1, 1824, p. 61, pl. vi, (male); pls. vii, viii, (skulls).

Phoca pealei Gill, Proc. Essex Inst., v, 1866, pp. 4, 13.

Phoca fætida Bartl., Proc. Zool. Soc., 1868, p. 402. (nec Fabricius.)

HARBOR SEAL.

1. Adult — P. Gulf of Mexico. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Coast of Maine. Ward's Nat. Scien. Establ., Rochester, N. Y.

3. Juv. — P. Coast of Newfoundland. Ward's Nat. Scien. Establ., Rochester, N. Y.

802. Phoca richardi (Gray).

Halicyon richardii Gray, Proc. Zool. Soc., 1864, p. 28, fig. 1.

Phoca largha Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 363. Zoöl. Ser. (nec Pallas.)

Phoca richardii Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 491. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 442. Zoöl. Ser.

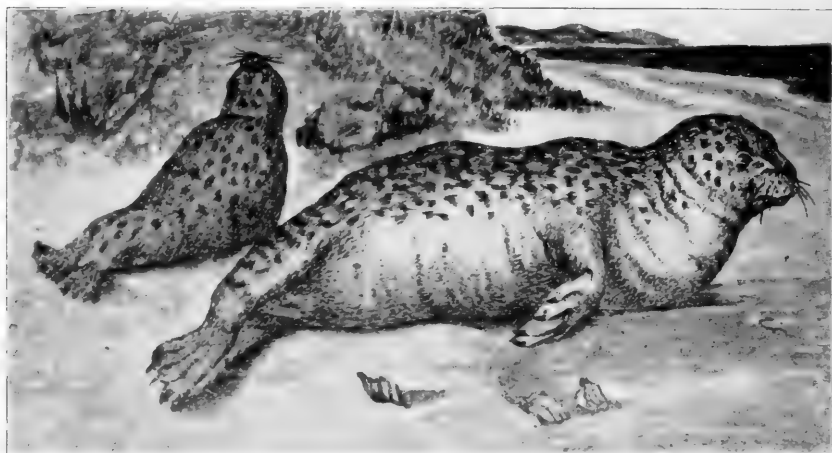


FIG. LXI. PHOCA RICHARDI. RICHARD'S HARBOR SEAL.

RICHARD'S HARBOR SEAL.

1. Adult — Coll. Yakutat Bay, Alaska. D. G. Elliot.

Subgenus B. Pusa.

803. *Phoca hispida* Schreber.

Phoca hispida Schreb., Säugth., III, 1776, p. 312, pl. LXXXVI.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 364.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 443. Zoöl. Ser.

Phoca fætida Fabr., Müller's Zool. Dan. Prod., 1776, p. VIII.

Phoca annellata Nilss., Skand. Faun., I, 1820, p. 362.

Calocephalus discolor F. Cuv., Dict. Scien. Nat., xxxix, 1826, p.

554.

Phoca schreberi Less., Dict. Class. Hist. Nat., XIII, 1828, p. 414.

Phoca frederici Less., Dict. Class. Hist. Nat., XIII, 1828, p. 416.

Callocephalus dimidiatus Gray, Cat. Seals & Whales Brit. Mus.,

1866, p. 22.

RINGED SEAL.

1. Adult — Exch. Coast of Nova Scotia. Am. Mus. Nat. Hist. N. Y. L. S. Dyche.

Subgenus C. *Pagophilus*.**804. *Phoca groenlandica* Fabricius.**

Phoca groenlandica Fabr., Müller's Zool. Dan. Prod., 1776, p. VIII.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 364, pl. XLIX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 444. Zool. Ser.

Phoca oceanica Lepech., Act. Acad. Scien. Imp. Petrop., I, 1777, p. 295, pls. VII, VIII.

Phoca semilunaris Bodd., Elench. Anim., 1785, p. 170.

Phoca albicauda Desm., Mamm., Suppl., 1822, p. 839.

Phoca lagura G. Cuv., Oss. Foss., V, 1825, p. 206. (juv.)

Phoca mulleri Less., Dict. Class. Hist. Nat., XIII, 1828, p. 413.

Phoca desmaresti Less., Dict. Class. Hist. Nat., XIII, 1828, p. 416.

Phoca pilayi Less., Dict. Class. Hist. Nat., XIII, 1828, p. 416.

Phoca dorsata Pallas, Zoog. Rosso-Asiat., I, 1831, p. 112.

Phoca albin Alex., Mem. Acad. Torino, II, 1850, p. 141, pls. 1-4. (Skeleton.)

Phoca annellata Gaim., Voy. en Islande, Atlas, 1851, pl. XI, fig. 9. (nec Nilsson.)

HARP SEAL.

1. Adult — Exch. Coast of Labrador. Am. Mus. Nat. Hist. N. Y. L. S. Dyche.
2. Juv. — P. Coast of Newfoundland. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult — P. Kane Basin, Greenland. S. Warmbath.

Order IX. **Insectivora. The Insectivores.**

Family I. **Cynocephalidæ. Flying Lemurs.**

Genus 230. **Cynocephalus.**

Cynocephalus Bodd., Dierk. Mengelwerk, 11, 1768, p. 8, footnote "1."

Type *Lemur volans* Linnæus.

Galeopithecus Pall., Act. Acad. Scien. Imp. Petrop., iv, Pt. 1,
1780, p. 208, tab. 7, 8.

805. Cynocephalus volans (Linnæus).

Lemur volans Linn., Syst. Nat., 1, 1758, p. 30.

Galeopithecus volans Pall., Act. Acad. Scien. Imp. Petrop., iv,
Pt. 1, 1780, p. 208, tab. 8.

FLYING LEMUR.

1. Adult — P. Sumatra. Ward's Nat. Scien. Establ., Rochester,
N. Y.

806. Cynocephalus philippinensis (Waterhouse).

Galeopithecus philippinensis Waterh., Proc. Zool. Soc., 1838, p.
119. Günth., Proc. Zool. Soc., 1879, p. 74.

PHILIPPINE ISLANDS FLYING LEMUR.

1. Adult — P. Philippine Islands. Menage Scient. Exped.
Bourns & Worcester.

Family II. **Tupaïidæ. Tree Shrews.**

Genus 231. **Tupaia.**

Tupaia Raffles, Trans. Linn. Soc. Lond., XIII, 1822, p. 256. Type

Tupaia ferruginea Raffles.

Glisorex Desm., Mamm., Suppl., 11, 1822, p. 535.

Cladobates F. Cuv., Dents Mamm., 1825, p. 251.

Hylogale Temm., Mon. Mamm., 1, 1827, p. XIX.

807. Tupaia tana Raffles.

Tupaia tana Raffles, Trans. Linn. Soc., XIII, 1822, p. 257. (nec
Is. Geoff.)

TREE SHREW.

1. Adult — P. Sumatra. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family III. **Macroscelididæ.**Genus 232. **Macroscelides.**

Macroscelides A. Smith, Zool. Jour., IV, 1829, p. 435. Type *Macroscelides typus* Smith = *Sorex proboscideus* Shaw.

Eumerus Is. Geoff., Ann. Scien. Nat., Paris, XVIII, 1829, p. 470.

808. Macroscelides proboscideus (Shaw).

Sorex proboscideus Shaw, Gen. Zool., Mamm., I, Pt. II, 1800, p. 536.

Macroscelides typus A. Smith, Zool. Jour., IV, 1829, p. 435.

ELEPHANT SHREW.

1. Adult ♂ P. Zanzibar, S. E. Africa. Deyrolle Fils.

809. Macroscelides revoili Huet.

Macroscelides revoili Huet, Bull. Soc. Philom., 1881, p. 96.

REVOIL'S SHREW.

1. Adult ♂ Coll. Haili, Somaliland, East Africa. D. G. Elliot.

Genus 233. **Rhynchocyon.**

Rhynchocyon Peters, Bericht u. Verh. K. Preuss. Akad. Wiss. Berl., 1847, p. 36. Type *Rhynchocyon cirnei* Peters.

810. Rhynchocyon petersi du Bocage.

Rhynchocyon petersi du Bocage, Jour. Scien. Lisb., VII, 1880, p. 159. Thos., Proc. Zool. Soc., 1890, p. 444.

PETERS'S SHREW.

1. Adult ♂ P. S. E. Africa. Deyrolle Fils.

Family IV. **Erinaceidæ.**Subfamily I. **Erinaceinæ. Hedgehogs.**Genus 234. **Erinaceus.**

Erinaceus Linn., Syst. Nat., I, 1758, p. 52; I, 1766, p. 75. Type *Erinaceus europæus* Linnæus.

Atelerix Pomel, Archiv. Scien. Phys. Nat., Bibl. Univ. Genève, IX, 1848, p. 251.

Hemiechinus Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIV, Abth. 1, 1866, p. 565.

Peroëchinus Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIV, Abth. 1, 1866, p. 565.

811. *Erinaceus europæus* Linnæus.

Erinaceus europæus Linn., Syst. Nat., 1, 1758, p. 52. *Id.* Dobs., Monog. Insect., 1, 1882, p. 8, pl. 1.

Erinaceus concolor Martin, Proc. Zool. Soc., 1837, p. 103.

Erinaceus dealbatus Swinh., Proc. Zool. Soc., 1870, p. 450.

EUROPEAN HEDGEHOG.

1. Adult — P. England. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Upsala, Sweden. J. A. Loring.

812. *Erinaceus sclateri* ? Anderson.

Erinaceus sclateri Ander., Proc. Zool. Soc., 1895, p. 414, fig. 1.

Erinaceus diadematus Elliot, Pub. Field Columb. Mus., 1, 1897, p. 153. Zool. Ser. (nec Fitzing.)

DIADEM HEDGEHOG.

1-2. Adult ♂ Coll. Berbera, Somaliland. East Africa. D. G. Elliot.

813. *Erinaceus albiventris* Wagner.

Erinaceus albiventris Wagn., Schreb. Säugth., Suppl., 11, 1841, p. 22. Dobson, Mon. Insect., Pt. 11, 1882, p. 11. Elliot, Pub. Field Columb. Mus., 1, 1897, p. 153. Zool. Ser.

WHITE-BELLIED HEDGEHOG.

1. Adult ♂ Coll. Toyo Plain, Somaliland. East Africa. D. G. Elliot.

Family V. *Soricidae*. Shrews.

Subfamily I. *Soricinae*.

Genus 235. *Sorex*. Common Shrews.

Sorex Linn., Syst. Nat., 1, 1758, p. 53; 1, 1766, p. 73. Type *Sorex araneus* Linnæus.

814. *Sorex personatus* I. Geoffroy.

Sorex personatus I. Geoff., Mém. Mus. Hist. Nat. Paris, xv, 1827, .

- p. 122. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 366. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 446. Zoöl. Ser.
- Sorex forsteri* Rich., Zoöl. Jour., III, 1828, p. 516.
- Sorex cooperi* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 388, pl. XXIV, fig. 7.
- Sorex fimbripes* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 391, pl. XXIV, fig. 8.
- Amphisorex lesueuri* Duvern., Mag. Zool., Mamm., IV, 1842, p. 33, pl. L.
- Sorex platyrhynchus* Linsley, Sillim. Am. Jour. Scien., XLIII, 1842, p. 346.
- Otisorex platyrhinus* De Kay, Nat. Hist. N. Y., Zoöl., I, 1842, p. 22, pl. V, fig. 1.
- Sorex haydeni* Baird, N. Am. Mamm., 1857, p. 29.
- Sorex richardsoni* Dobs., Mon. Insect., I, Pt. III, 1890, pl. XXIII, fig. 9. (nec Bachman.)
- Sorex idahoensis* Merr., N. Am. Faun., No. 5, 1891, p. 32.

MASKED SHREW.

- 1-3. Adult ♂ Exch. Gulquae Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 4-5. Adult ♀ Exch. Gulquae Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 6-7. Adult ♂ Exch. South Twin Lake, Penobscot County, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 8-9. Adult ♀ Exch. South Twin Lake, Penobscot County, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 10-18. Adult — P. Red Deer, Alberta, Canada. G. F. Dippie.
- 19-24. Adult ♂ Coll. Lake Edward, Quebec, Canada. T. Surber.
- 25-26. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
27. Adult ♂ Coll. Dalhousie, New Brunswick. T. Surber.
28. Adult ♂ Coll. Lake Escarte, Quebec, Canada. T. Surber.
29. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
30. Adult ♀ Coll. Bottineau, North Dakota. W. E. Snyder.
31. Adult ♂ P. Gorget, Prince Edward Island, Canada. R. T. Young.
32. Adult ♀ P. Gorget, Prince Edward Island, Canada. R. T. Young.

815. *Sorex fumeus* Miller.

- Sorex platyrhinus* Dobs., Mon. Insect, I, Pt. III, 1890, pl. XXIII, fig. 5. (nec De Kay.)

Sorex fumeus Miller, N. Am. Faun., No. 10, 1895, p. 50. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 369. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 447. Zoöl. Ser.

SMOKY SHREW.

1. Adult ♂ Coll. Rivière du Loup, Quebec, Canada. T. Surber.
2. Adult ♀ Coll. Restigouche River, New Brunswick, Canada. T. Surber.
- 3-6. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
7. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.

816. *Sorex setosus* Elliot.

Sorex setosus Elliot, Pub. Field Columb. Mus., 1, 1899, p. 274. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 369. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 448. Zoöl. Ser.

SPINY SHREW.

- 1-2. Adult ♂ Type and paratype. Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.

817. *Sorex vagrans* Baird.

Sorex vagrans Baird, N. Am. Mamm., 1857, p. 15, pl. xxvi, fig. 1675. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 370. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 448. Zoöl. Ser.

Sorex suckleyi Baird, N. Am. Mamm., 1857, p. 18, pl. xxvii, fig. 1677.

WANDERING SHREW.

- 1-2. Adult ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 3-6. Adult — Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 7-9. Adult ♂ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.
- 10-12. Adult ♀ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.
- 13-15. Adult ♀ Coll. Grant's Pass, Oregon. E. Heller.
- 16-20. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
21. Adult ♂ Coll. Mendocino, California. E. Heller.
- 22-24. Adult ♂ Coll. Eureka, California. E. Heller.
- 25-27. Adult ♀ Coll. Eureka, California. E. Heller.
28. Adult ♀ Coll. Requa, California. E. Heller.
29. Adult ♀ Coll. Crescent City, California. E. Heller.

- 30-31. Adult ♂ Coll. Riverton, Oregon. E. Heller.
 32-37. Adult ♂ Coll. McCoy, Oregon. E. Heller.
 38. Adult ♀ Coll. McCoy, Oregon. E. Heller.
 39. Adult ♀ P. Sumas, British Columbia, Canada. C. K. Worthern.

818. *Sorex obscurus* Merriam.

Sorex vagrans similis Merr., N. Am. Faun., No. 5, 1891, p. 34, pl. IV, fig. 3. (nec Hensel.)

Sorex obscurus Merr., N. Am. Faun., No. 10, 1895, p. 72, pl. VIII, figs. 1, 1a. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 371. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 449. Zool. Ser.

DUSKY SHREW.

1. Juv. ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
2. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.
3. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
4. Juv. ♀ P. Silver Lake, Amador County, California. W. W. Price.
5. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthern.
- 6-7. Adult ♀ P. Cariboo, British Columbia, Canada. C. K. Worthern.
8. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthern.
9. Adult ♀ P. Sumas, British Columbia, Canada. A. C. Brooks.
- 10-15. Adult ♀ P. Boulder, Colorado. R. T. Young.
- 16-28. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 29-33. Adult ♂ P. Nederland, Colorado. R. T. Young.
34. Adult ♀ P. Nederland, Colorado. R. T. Young.
35. Adult ♀ P. Eldora, Colorado. R. T. Young.

a. Sorex obscurus ventralis Merriam.

Sorex obscurus ventralis Merr., N. Am. Faun., No. 10, 1895, p. 75. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 550, fig. LXXXI. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 450. Zool. Ser.

CHESTNUT-BELLIED SHREW.

1. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.



FIG. LXII. *Sorex o. ventralis*. CHESTNUT-BELLIED SHREW.

a. Sorex glacialis shumaginensis (Merriam).

Sorex alascensis shumaginensis Merr., Proc. Wash. Acad. Scien., 11, 1900, p. 18.

Sorex glacialis shumaginensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 373. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 451. Zoöl. Ser.

POPOF ISLAND SHREW.

1. Adult ♀ Coll. Popof Island, Shumagin Group, Alaska. D. G. Elliot.

819. *Sorex trowbridgii* Baird.

Sorex trowbridgii Baird, N. Am. Mamm., 1857, p. 13. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 373. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 452. Zoöl. Ser.

TROWBRIDGE'S SHREW.

- 1-5. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
- 6-12. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
- 13. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 14. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 15-16. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 17-18. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 19-20. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthen.

820. *Sorex montereyensis* Merriam.

Sorex montereyensis Merr., N. Am. Faun., No. 10, 1895, p. 79.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 373, fig. 70. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 452. Zoöl. Ser.

MONTEREY SHREW.

- 1-15. Adult ♀ P. Portola, California. W. W. Price.
- 16-21. Adult ♂ P. Portola, California. W. W. Price.
- 22. Adult ♀ P. La Honda, California. W. W. Price.
- 23-24. Adult ♀ P. Mount Hamilton, California. W. W. Price.
- 25-32. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 33-34. Adult ♀ Coll. Point Reyes, California. E. Heller.
- 35. Adult ♂ Coll. Petaluma, California. E. Heller.
- 36-37. Adult ♀ Coll. Petaluma, California. E. Heller.
- 38. Adult ♂ Coll. Eureka, California. E. Heller.
- 39-42. Adult ♀ Coll. Eureka, California. E. Heller.
- 43-44. Adult ♀ Coll. Mendocino, California. E. Heller.
- 45-55. Adult ♂ Coll. Nicasio, California. E. Heller.
- 56-57. Adult ♀ Coll. Nicasio, California. E. Heller.
- 58-60. Adult ♂ Coll. Mount Whitney, California. E. Heller.
- 61-62. Adult ♀ Coll. Mount Whitney, California. E. Heller.

821. *Sorex californicus* Merriam.

Sorex californicus Merr., N. Am. Faun., No. 10, 1895, p. 80, pl. XII, figs. 6, 7. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 374. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 452. Zoöl. Ser.

CALIFORNIA SHREW.

- 1. Adult ♀ Pres. Palo Alto, California. E. Heller.

822. *Sorex ornatus* Merriam.

Sorex ornatus Merr., N. Am. Faun., No. 10, 1895, p. 79, pl. VIII, figs. 3, 3a. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 374. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 452. Zoöl. Ser.

ORNAMENTED SHREW.

- 1. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 2-4. Adult ♀ Coll. Piru Creek, California. E. Heller.
- 5. Adult ♂ Coll. Los Angeles, California. E. Heller.
- 6-7. Adult ♀ Coll. Los Angeles, California. E. Heller.

823. *Sorex pacificus* Coues.

Sorex pacificus Coues, Bull. U. S. Geol. & Geog. Surv., III, 1877, p. 650. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 375. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 454. Zoöl. Ser.

PACIFIC SHREW.

- 1-2. Adult ♂ Coll. Mendocino, California. E. Heller.
3. Adult ♀ Coll. Mendocino, California. E. Heller.
4. Adult ♂ Coll. Crescent City, California. E. Heller.
- 5-10. Adult ♂ Coll. Eureka, California. E. Heller.
- 11-18. Adult ♀ Coll. Eureka, California. E. Heller.
- 19-30. Adult ♂ Coll. Requa, California. E. Heller.
- 31-34. Adult ♀ Coll. Requa, California. E. Heller.
35. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 36-40. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
41. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
42. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
43. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
44. Adult ♀ Coll. Gardiner, Oregon. E. Heller.

824. *Sorex orinus* Elliot.

Sorex orinus Elliot, Pub. Field Columb. Mus., III, 1903, p. 172.
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.
 Pub., IV, Pt. II, 1904, p. 553, fig. 102. Zoöl. Ser. *Id.* Check-
 L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI,
 1905, p. 456. Zoöl. Ser.

MOUNTAIN SHREW.

1. Adult ♀ Coll. Type. Aguaje de las Fresas, Lower California, Mexico. E. Heller.
- 2-3. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
4. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

Genus 236. *Microsorex*. Small Shrews.

Microsorex Coues, Notes on Amer. Insect. Mamm., Bull. U. S. Geol. &
 Geog. Surv., III, 1877, No. 3, p. 646. Type *Sorex hoyi* Baird.

825. *Microsorex hoyi* (Baird).

Sorex hoyi Baird, N. Am. Mamm., 1857, p. 32, pl. xxviii.

Sorex thompsoni Baird, N. Am. Mamm., 1857, p. 34.

Microsorex hoyi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
 1901, p. 377, fig. 71. Zoöl. Ser. *Id.* Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 457.
 Zoöl. Ser.

HOY'S SHREW.

1. Adult ♂ P. Allerton, Prince Edward Island, Canada. R. T. Young.

- 2-3. Adult ♂ P. Gorget, Prince Edward Island, Canada. R. T. Young.
 4. Adult ♀ P. Gorget, Prince Edward Island, Canada. R. T. Young.

Genus 237. **Neosorex. Swimming Shrews.**

Neosorex Baird, N. Am. Mamm., 1857, p. 11. Type *Neosorex navigator* Baird.

a. *Neosorex palustris navigator* (Baird).

Neosorex navigator Baird, N. Am. Mamm., 1857, p. 11.

Sorex palustris Merr., N. Am. Faun., No. 5, 1891, p. 35. (nec Richardson.)

Neosorex palustris navigator Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 379. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 458. Zoöl. Ser.

NAVIGATOR SHREW.

1. Adult ♂ P. Boulder, Colorado. R. T. Young.
 2-3. Adult ♀ P. Boulder, Colorado. R. T. Young.
 4-5. Adult ♂ P. Nederland, Colorado. R. T. Young.
 6. Adult ♀ P. Nederland, Colorado. R. T. Young.
 7-14. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
 15-17. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
 18-19. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.

Genus 238. **Atophyrax. Anomalous Shrews.**

Atophyrax Merr., Trans. Linn. Soc. N. Y., 11, 1884, p. 217. Type *Atophyrax bendirii* Merriam.

826. **Atophyrax bendirii** Merriam.

Atophyrax bendirii Merr., Trans. Linn. Soc. N. Y., 11, 1884, p. 217. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 381, fig. 73. Zoöl. Ser. *Id.* Pub. Field Columb. Mus., III, 1903, p. 195. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 459. Zoöl. Ser.

Sorex bendirii palmeri Merr., N. Am. Faun., No. 10, 1895, p. 97.

Atophyrax bendirii palmeri Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 381. Zoöl. Ser.

BENDIRE'S SHREW.

1. Adult ♂ Coll. Requa, California. E. Heller.
2. Adult ♀ Coll. Requa, California. E. Heller.
3. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
4. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
5. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
6. Adult — P. Sumas, British Columbia, Canada. C. K. Worth-
ern.

Genus 239. **Blarina. Short-tailed Shrews.**

Blarina Gray, Proc. Zoöl. Soc., 1837, p. 124. Type *Sorex talpoides* Gapper = *Sorex brevicaudus* Say.

Brachysorex Duvern., Mag. Zool., 2me Sér., IV, 1842, p. 37, pl. 52.

Blaria Gray, List Spec. Mamm. Brit. Mus., 1843, p. XXI.

Talposorex Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 248. (nec Schinz, 1821; nec Lesson, 1827.)

Cryptotis Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 249.

Galemys Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 249. (nec Kaup.)

Anotus Wagn., Schreb. Säugth., Suppl., v, 1855, p. 550. (nec Rafinesque, 1815.)

Soriciscus Coues, Bull. U. S. Geol. & Geogr. Surv. Terr., 1877, p. 649.

Subgenus A. **Blarina.**

827. *Blarina brevicauda* (Say).

Sorex brevicaudus Say, Long's Exped. Rocky Mts., I, 1823, p. 164.

Sorex talpoides Gapper, Zoöl. Jour., v, 1830, p. 202, pl. VIII.

Sorex dekayi Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 377.

Galemys (Brachysorex) micrurus Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 249.

Sorex angusticeps Baird, N. Am. Mamm., 1857, p. 47.

Blarina costaricensis Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 205. (not from Costa Rica.)

Blarina brevicauda Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,

1901, p. 382, fig. 74. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 461. Zoöl. Ser.

Blarina brevicauda talpoides Bangs, Proc. N. Eng. Zoöl. Club, III, 1902, p. 75.

SHORT-TAILED SHREW.

1. Adult ♂ P. Scriba, New York. D. D. Stone.
- 2-3. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 4-5. Adult ♀ Exch. Fairview, New Jersey. Am. Mus. Nat. Hist. N. Y. Chapman & Granger.
6. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
7. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 8-9. Adult ♂ Exch. Weaverville, N. Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
10. Adult ♂ Exch. Tobique Point, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
11. Adult ♂ Exch. Trousers Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 12-15. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
16. Juv. ♀ Coll. Black Mountain, West Virginia. T. Surber.
17. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
18. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
19. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 20-23. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 24-26. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
27. Adult ♂ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
- 28-31. Adult ♀ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
32. Adult — P. Knoxville, Iowa. G. K. Cherrie.
33. Adult ♂ Coll. Lake Edward, Quebec, Canada. T. Surber.
- 34-36. Adult ♀ Coll. Lake Edward, Quebec, Canada. T. Surber.
37. Adult ♀ Coll. Dalhousie, New Brunswick, Canada. T. Surber.

- 38-39. Adult ♂ Coll. Restigouche River, New Brunswick, Canada. T. Surber.
40. Adult ♀ Coll. Restigouche River, New Brunswick, Canada. T. Surber.
41. Adult ♂ Coll. Metapedia River, Quebec, Canada. T. Surber.
- 42-45. Adult ♂ Coll. Rivière du Loup, Quebec, Canada. T. Surber.
46. Adult ♀ Coll. Rivière du Loup, Quebec, Canada. T. Surber.
47. Adult ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.
48. Adult ♂ P. Hamlington, Minnesota. Ward's Nat. Scien. Establ., Rochester, N. Y.
49. Adult—Pres. Jackson Park, Chicago, Illinois. H. W. Clark.
- a. Blarina brevicauda carolinensis* (Bachman).
Sorex carolinensis Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 366.
Blarina brevicauda carolinensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 383. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 461. Zoöl. Ser.

CAROLINA SHREW.

1. Adult ♂ Coll. Apex, North Carolina. T. Surber.
2. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
3. Adult — P. Raleigh, North Carolina. Ward's Nat. Scien. Establ., Rochester, N. Y.
- b. Blarina brevicauda hylophaga* Elliot.
Blarina brevicauda hylophaga Elliot, Pub. Field Columb. Mus., I, 1899, p. 287. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 383. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 461. Zoöl. Ser.

WOOD SHREW.

1. Adult ♂ Type. Coll. Dougherty, Indian Territory. T. Surber.
2. Adult ♀ Paratype. Coll. Dougherty, Indian Territory. T. Surber.

Subgenus B. *Cryptotis*.828. *Blarina parva* (Say).

Sorex parvus Say, Long's Exped. Rocky Mts., I, 1823, p. 163.

Sorex cinereus Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 373, pl. xxiii, fig. 3.

Blarina exilipes Baird, N. Am. Mamm., 1857, p. 51.

Blarina eximius Baird, N. Am. Mamm., 1857, p. 52.

Blarina parva Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 384, fig. 75. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 463. Zoöl. Ser.

SMALL SHREW.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.

2-5. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.

6. Adult ♂ P. Warsaw, Illinois. C. K. Worthern.

7. Adult ♀ P. Warsaw, Illinois. C. K. Worthern.

829. *Blarina floridana* Merriam.

Blarina floridana Merr., N. Am. Faun., No. 10, 1895, p. 19, pl. 1, fig. 7. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 385. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 463. Zoöl. Ser.

FLORIDA SHREW.

1. Adult ♀ Coll. Enterprise, Florida. T. Surber.

830. *Blarina pergracilis* Elliot.

Blarina pergracilis Elliot, Pub. Field Columb. Mus., III, 1903, p. 149. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 557, figs. 104, LXXXII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 463. Zoöl. Ser.



FIG. LXIII. BLARINA PERGRACILIS. OCOTLAN SLENDER SHREW.

OCOTLAN SLENDER SHREW.

1. Adult ♂ Type. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

Genus 240. **Neomys.**

Neomys Kaup, Entw.-Gesch. & Natürl. Syst. Europ. Thierwelt, I, 1829, p. 117. Type *Sorex daubentonii* Erxleben = *Sorex fodiens* Schreber.

Crossopus Wagl., Isis, 1832, p. 275.

Hydro-Sorex Duvern., Mém. Mus. Hist. Nat. Strassb., II, 1835, p. 17.

Myosictis Pomel, Cat. Méth. Vert. Foss. Bassin Loire, 1854, p. 14.

831. **Neomys fodiens** (Schreber).

Sorex fodiens Schreber, Säugth., III, 1777, p. 571, pl. CLXI.

Sorex daubentonii Erxl., Syst. Regn. Anim., 1777, p. 124.

PALÆARCTIC WATER SHREW.

1. Adult — P. England. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Crocidurinae.**Genus 241. **Crocidura.**

Crocidura Wagl., Isis, 1832, p. 275. Type *Sorex leucodon* Hermann.

Suncus Hempr. & Ehrenb., Symb. Phys., Mamm., II, 1832, sig. K.

Pachyura Sélys-Longch., Étud. de Micromamm., 1839, pp. 32, 142.
(nec Agassiz, 1829, Pisces.)

Leucodon Fatio, Faun. Vertéb. Suisse, Mamm., I, 1869, pp. 132-134, 137-139.

Subgenus A. **Crocidura.**832. **Crocidura russulus** (Hermann).

Sorex araneus Linn., Syst. Nat., I, 1758, p. 53; I, 1766, p. 74.
(Part.)

Sorex russulus Herm., Zimm. Geogr. Gesch., II, 1780, p. 282.

Sorex myoides Blanf., Jour. Asiat. Soc. Beng., XLIV, Pt. 2, 1875, p. 106.

Crocidura aranea Blanf., Faun. Brit. Ind., Mamm., 1888-91, p. 243.

SPIDER SHREW.

1. Adult — P. "Germany." Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus B. *Pachyura*.

833. *Crocidura madagascariensis* Coquerel.

Sorex madagascariensis Coquer., Ann. Scien. Nat., ix, 1848, p. 193, pl. 11, fig. 1.

MADAGASCAR SHREW.

1. Adult — P. Madagascar. C. I. Forsyth-Major.

Family VI. **Talpidae. Moles.**Subfamily I. **Desmaninæ.**Genus 242. **Desmana.**

Desmana Glden., Besch. Berl. Gesell. Naturf. Freunde, iii, 1777, p. 108. Type *Castor moschatus* Linnæus.

Mygalus Retz., Animad. Class. Mamm. Linn., 1796, p. 22.

Mygale G. Cuv., Leçons Anat. Comp., 1, 1800, tabl. 1.

Myogalea Fisch., Syn. Mamm., 1829, p. 250.

Galemys Kaup, Entw.-Gesch. Natrl. Syst. Europ. Thierwelt, 1, 1829, p. 118.

Caprios Wagl., Nat. Syst. Amphib., 1830, p. 14.

Myogale Brandt, Wieg. Archiv f. Naturgesch., 1, 1836, p. 176.

834. *Desmana moschata* (Linnæus).

Castor moschatus Linn., Syst. Nat., 1, 1758, p. 59; 1, 1766, p. 79.

Sorex moschata Pall., Act. Acad. Scien. Imp. Petrop., 11, 1781, p. 315. *Id.* Zoogr. Rosso-Asiat., 1831, p. 1.

THE DESMAN.

1. Adult — P. Sarepta, South Russia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 243. **Neurotrichus. Shrew-like Moles.**

Neurotrichus Gnther, Proc. Zol. Soc., 1880, p. 441. Type *Urotrichus gibbsii* Baird.

835. Neurotrichus gibbsi (Baird).

Urotrichus gibbsii Baird, N. Am. Mamm., 1857, p. 76.

Neurotrichus gibbsi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 387, fig. 77. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 466. Zoöl. Ser.

GIBBS'S SHREW MOLE.

1. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthern.

2. Adult ♀ P. Sumas, British Columbia, Canada. C. K. Worthern.

3. Adult ♂ P. Palo Alto, California. E. Heller.

a. Neurotrichus gibbsi major Merriam.

Neurotrichus gibbsi major Merr., N. Am. Faun., No. 16, 1899, p.

88. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.

387. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., VI, 1905, p. 467. Zoöl. Ser.

LARGE SHREW MOLE.

1-4. Adult ♂ Coll. Eureka, California. E. Heller.

5-6. Adult ♀ Coll. Eureka, California. E. Heller.

7. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

Subfamily II. Talpinæ.**Genus 244. Talpa.**

Talpa Linn., Syst. Nat., I, 1758, p. 52; I, 1766, p. 73. Type *Talpa europæa* Linnæus.

836. Talpa europæa Linnæus.

Talpa europæa Linn., Syst. Nat., I, 1758, p. 52; I, 1766, p. 73.

EUROPEAN MOLE.

1. Adult — P. England. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-5. Adult ♂ P. Andermatt, Switzerland. J. A. Loring.

6-12. Adult ♀ P. Andermatt, Switzerland. J. A. Loring.

13-14. Adult ♂ P. Meiringen, Switzerland. J. A. Loring.

15. Adult ♀ P. Meiringen, Switzerland. J. A. Loring.

Genus 245. Condylura. Star-nosed Moles.

Condylura Illig., Prodr. Syst. Mamm. et Av., 1811, p. 125. Type *Sorex cristatus* Linnæus.

- Astromycter* Harris, Am. Journ. Sci. & Arts, IX, 1825, p. 400.
Rhinaster Wagl., Nat. Syst. Amphib., 1830, p. 14.
Astromyctes Gray, List Spec. Mamm. Brit. Mus., 1843, pp. XXI,
 76. (nomen nudum.)
Astromydes Blyth, Cat. Mamm. Asiat. Soc. Mus., 1863, p. 87.

837. Condylura cristata (Linnæus).

- Sorex cristatus* Linn., Syst. Nat., I, 1758, p. 53.
Talpa longicaudata Erxl., Syst. Regn. Anim., I, 1777, p. 118.
Talpa radiata Shaw, Gen. Zool., Mamm., I, 1800, p. 523.
Condylura macroura Harl., Faun. Amer., 1825, p. 36.
Condylura prasinata Harris, Bost. Jour. Phil. & Arts, 1825, p.
 582.
Condylura cristata Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
 II, 1901, p. 395, fig. 81. Zool. Ser. *Id.* Check-L. Mamm. N.
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 467.
 Zool. Ser.

STAR-NOSED MOLE.

1. Adult ♂ P. Lansing, New York. C. K. Worthern.
2. Adult ♀ P. Oswego, New York. D. D. Scott.
3. Adult — P. New York. Ward's Nat. Scien. Establ., Roches-
 ter, N. Y.

Genus 246. **Scapanus. Western Moles.**

Scapanus Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève,
 4e Sér., IX, 1848, p. 247. Type, by elimination, *Scalops town-
 sendii* Bachman.

838. Scapanus townsendi (Bachman).

- Scalops canadensis* Rich., Faun. Bor. Am., Mamm., I, 1829, p. 9.
 (nec Desmarest, nec Harlan.)
Scalops townsendii Bachm., Jour. Acad. Nat. Scien. Phil., 1839,
 p. 58.
Scalops latimanus Bachm., Bost. Jour. Nat. Hist., 1843, p. 41.
Scalops metallescens Cass., Proc. Acad. Nat. Scien. Phil., 1853,
 p. 242.
Scalops æneus Cass., Proc. Acad. Nat. Scien. Phil., 1853, p. 299.
Talpa tæniata Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p.
 327.
Scapanus townsendi Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

11, 1901, p. 391, fig. 79. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 468. Zoöl. Ser.

TOWNSEND'S MOLE.

- 1-4. Adult ♂ Coll. Crescent City, California. E. Heller.
5. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
6. Adult — Coll. Hot Springs Trail, Clallam County, Washington. D. G. Elliot.
7. Adult — P. Tacoma, Washington. Ward's Nat. Scien. Establ., Rochester, N. Y.

839. *Scapanus orarius* True.

Scapanus orarius True, Proc. U. S. Nat. Mus., XIX, 1896, p. 52. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 392. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 468. Zoöl. Ser.

COAST MOLE.

1. Adult ♂ Coll. Crescent City, California. E. Heller.
2. Adult ♀ Coll. Mendocino, California. E. Heller.

840. *Scapanus californicus* (Ayres).

Scalops californicus Ayres, Proc. Calif. Acad. Nat. Scien., I, 1855, p. 54. *Scapanus dilatus* True, Proc. U. S. Nat. Mus., 1894, p. 242. *Scapanus californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 392. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 468. Zoöl. Ser.

CALIFORNIA MOLE.

1. Adult ♂ Coll. Mendocino, California. E. Heller.
2. Adult ♀ Coll. Mendocino, California. E. Heller.
3. Adult ♂ Coll. Nicasio, California. E. Heller.
4. Adult ♀ Coll. Nicasio, California. E. Heller.
5. Adult ♂ Coll. Stevens Creek, California. E. Heller.

Genus 247. *Scalopus*. Common Moles.

Scalopus Geoff., Cat. Mamm. Mus. Hist. Nat. Paris, 1803, pp. 77, 78. Type *Scalopus virginianus* Geoffroy = *Sorex aquaticus* Linnæus.

Scalops Illig., Prodr. Syst. Mamm. et Av., 1811, p. 126.

841. *Scalopus aquaticus* (Linnæus).

Sorex aquaticus Linn., Syst. Nat., I, 1758, p. 53.

Talpa europæa flavescens Erxl., Syst. Reg. Anim., 1777, p. 118.

Talpa europæa flava Gmel., Syst. Nat., 1, 1788, p. 112.

Talpa flava Kerr, Anim. Kingd., 1792, p. 201.

Talpa fusca Kerr, Anim. Kingd., 1792, p. 202.

Talpa cupreata Rafin., Préc. découv. trav. somiol. Palerme, 1814, p. 14.

Scalops canadensis Desm., Mamm., 1820, p. 155.

Scalops pennsylvanica Harl., Faun. Amer., 1825, p. 33.

Talpa pennantii Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 327.

Scalops aquaticus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 389, fig. 78. Zoöl. Ser.

Scalopus aquaticus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 469. Zoöl. Ser.

COMMON MOLE.

- 1-2. Adult ♂ Exch. Central Park, New York. Am. Mus. Nat. Hist. N. Y.
3. Adult ♀ Exch. Central Park, New York. Am. Mus. Nat. Hist. N. Y.
4. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
6. Adult — Pres. Long Island, New York. T. H. Bean.
7. Adult ♂ Coll. Apex, North Carolina. T. Surber.
8. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
- 9-10. Adult ♂ Coll. Catawba, South Carolina. T. Surber.
11. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
12. Adult ♂ Pres. Nashville, Tennessee. E. B. Williamson. L. C. Glen.
13. Adult ♀ Pres. Nashville, Tennessee. E. B. Williamson. L. C. Glen.

a. *Scalopus aquaticus machrinus* (Rafinesque).

Talpa machrina Rafin., Atlantic Journ., 1, 1832, p. 61.

Talpa sericea Rafin., Atlantic Journ., 1, 1832, p. 61.

Scalops argentatus Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 292.

Scalops aquaticus machrinus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 389. Zoöl. Ser.

Scalopus aquaticus machrinus Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 470. Zoöl. Ser.

LARGE-NOSED MOLE.

- 1-2. Adult ♂ Pres. Greenway, Arkansas. L. Mitchell.
- 3-5. Adult ♀ Pres. Greenway, Arkansas. L. Mitchell.
- 6-7. Juv. — Pres. Greenway, Arkansas. L. Mitchell.
- 8-14. Adult ♂ Pres. Oakwoods Cemetery, Chicago, Illinois. M. Kane.
- 15-16. Adult ♀ Pres. Oakwoods Cemetery, Chicago, Illinois. M. Kane.
- 17. Adult ♂ P. Warsaw, Illinois. C. K. Worthern.
- 18. Adult — Pres. Brookdale, Illinois. P. Glenn.
- 19. Adult ♀ Pres. Jackson Park, Chicago. L. Kenkel.

b. *Scalopus aquaticus intermedius* (Elliot).

- Scalops machrinus intermedius* Elliot, Pub. Field Columb. Mus.,
I, 1899, p. 280. Zoöl. Ser.
- Scalops aquaticus intermedius* Elliot, Syn. N. Am. Mamm., F. C.
M. Pub., II, 1901, p. 390. Zoöl. Ser.
- Scalopus aquaticus intermedius* Elliot, Check-L. Mamm. N. Amer.
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 470. Zoöl. Ser.

INTERMEDIATE MOLE.

- 1-4. Adult ♂ Type and paratypes. Coll. Alva, Oklahoma Territory. T. Surber.
- 5-6. Adult ♀ Paratypes. Coll. Alva, Oklahoma Territory. T. Surber.
- 7. Adult ♂ Coll. Dougherty, Indian Territory. T. Surber.

c. *Scalopus aquaticus australis* (Chapman).

- Scalops aquaticus australis* Chapman, Bull. Am. Mus. Nat. Hist.
N. Y., 1893, p. 339. Elliot, Pub. Field Columb. Mus., III,
1901, p. 56. Zoöl. Ser.
- Scalops parvus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p.
157.
- Scalops anastasiæ* Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 212.
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 391.
Zoöl. Ser.
- Scalops aquaticus parvus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
II, 1901, p. 390. Zoöl. Ser.
- Scalopus aquaticus australis* Elliot, Check-L. Mamm. N. Amer.
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 470. Zoöl. Ser.

FLORIDA MOLE.

- 1. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 2-4. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.

5. Adult ♂ Topotype. Coll. Gainesville, Florida. T. Surber.
- 6-8. Adult ♀ Topotypes. Coll. Gainesville, Florida. T. Surber.
- 9-11. Adult ♂ Coll. New Berlin, Florida. T. Surber.
12. Adult ♂ Coll. St. Charles Creek, Florida. T. Surber.
13. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 14-15. Adult ♀ Coll. Enterprise, Florida. T. Surber.
16. Juv. ♂ Coll. Enterprise, Florida. T. Surber.

d. Scalopus aquaticus texensis (Allen).

Scalops argentatus texanus! Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 221.

Scalops aquaticus texensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 390. Zoöl. Ser.

**Scalopus aquaticus texensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 471. Zoöl. Ser.

TEXAS MOLE.

1. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

Genus 248. **Parascalops. Hairy-tailed Moles.**

Parascalops True, Proc. U. S. Nat. Mus., XVII, 1894, p. 242. Type *Scalops breweri* Bachman.

842. Parascalops breweri (Bachman).

Scalops breweri Bachm., Bost. Jour. Nat. Hist., 1841, p. 32.

Parascalops breweri Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 394, fig. 80. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 471. Zoöl. Ser.

BREWER'S HAIRY-TAILED MOLE.

1. Adult ♂ P. Lansing, New York. C. K. Worthern.
2. Adult ♀ P. Lansing, New York. C. K. Worthern.
3. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
4. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.

*In the Check-L. Mamm. N. Amer. Cont. etc., the type locality of this species was erroneously given as Aransas County? instead of Presidio Co., Texas.

Family VII. **Solenodontidæ.**Genus 249. **Solenodon. Almiqui & Agouta.****Solenodon** Brandt, Mém. Acad. Imp. Scien. St. Pétersb., 6e Sér., II, 1833, p. 459. Type *Solenodon paradoxus* Brandt.**843. Solenodon cubanus** Peters.*Solenodon cubanus* Peters, Abh. K. Preuss. Akad. Wiss. Berl., 1863, p. 2, pl. III. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 567, figs. 106, LXXXIV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 472. Zoöl. Ser.

FIG. LXIV. SOLENODON CUBANUS. ALMIQUI.

ALMIQUI.

1. Adult ♂ P. Cuba. Ward's Nat. Scien. Establ., Rochester, N. Y

Family VIII. **Tenrecidæ.**Subfamily I. **Tenrecinæ.**Genus 250. **Tenrec.****Tenrec** Lacép., Tabl. Mamm., 1799, p. 7. Type *Tenrec ecaudatus* Lacépède = *Erinaceus ecaudatus* Schreber.

Centetes Illig., Prodr. Syst. Mamm. et Av., 1811, p. 124.

Setiger G. Cuv., Leç. Anat. Comp., 1, 1800, tabl. I. (nomen nudum.)

844. *Tenrec ecaudatus* (Schreber).

Erinaceus ecaudatus Schreb., Säugth., III, 1778, p. 584, pl. CLXV.

Gmel., Syst. Nat., 1788, p. 117.

Centetes ecaudatus Dobson, Mon. Insect., Pt. 1, 1882, p. 68, pl. VII.

TAILLESS TENREC.

1-7. Adult & juv.—Group. P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 251. **Hemicentetes.**

Hemicentetes Mivart, Proc. Zool. Soc., 1871, p. 58, pl. v. Type

Erinaceus madagascariensis Shaw = *Erinaceus semispinosus* Cuvier.

845. *Hemicentetes semispinosus* (Cuvier).

Erinaceus semispinosus Cuv., Tabl. Élément. Hist. Nat., 1798, p. 108.

Setiger variegatus E. Geoff., Cat. Mamm., 1803.

Hemicentetes madagascariensis Mivart, Proc. Zool. Soc., 1871, p. 58, fig.

Ericulus nigricans Bartl., Proc. Zool. Soc., 1875, p. 64.

Hemicentetes variegatus Jentink, Notes Leyd. Mus., 1879, p. 148.

SMALL-SPINED TENREC.

1 Adult ♀ P. Madagascar. C. I. Forsyth-Major.

846. *Hemicentetes nigriceps* Günther.

Hemicentetes nigriceps Günth., Ann. Mag. Nat. Hist., 4th Ser., xvi, 1875, p. 125.

Hemicentetes variegatus var. *buffoni* Jentink, Notes Leyd. Mus., 1879, p. 150.

BLACK-HEADED TENREC.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 252. **Setifer.**

Setifer Froriep, in Duméril, Analyt. Zool. aus Franz. mit Zusätzen, 1806, p. 15. Type *Erinaceus setosus* Schreber.

Ericulus I. Geoff., Ann. Sci. Nat. Paris, 2me Sér., VIII, 1837, p. 60.

847. Setifer setosus (Schreber).

Erinaceus setosus Schreb., Säugth., III, 1778, p. 583, pl. CLXIV.

Gmel., Syst. Nat., 1788, p. 117.

Setiger setosus Jent., Notes Leyd. Mus., 1879, p. 142.

Ericulus setosus Dobson, Mon. Insect., Pt. I, 1882, p. 71.

SPINY TENREC.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 253. **Microgale.**

Microgale Thomas, Jour. Linn. Soc. Lond., Zool., XVI, 1882, p. 319. Type *Microgale longicaudata* Thomas.

848. Microgale cowani Thomas.

Microgale cowani Thos., Jour. Linn. Soc. Lond. Zool., XVI, 1882, p. 320. Dobson, Mon. Insect., Pt. II, 1883, p. 86B, pl. VIII, figs. 4, 4e.

COWAN'S MICROGALE.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.
2. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

a. *Microgale cowani nigrescens* Elliot.

Microgale cowani nigrescens Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 237.

FORSYTH-MAJOR'S MICROGALE.

1. Adult — Type. P. Madagascar. C. I. Forsyth-Major.

849. Microgale dobsoni Thomas.

Microgale dobsoni Thos., Ann. Mag. Nat. Hist., 5th Ser., 1884, p. 337.

DOBSON'S MICROGALE.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

850. Microgale pusillus Forsyth-Major.

Microgale pusillus Forsyth-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 462.

LITTLE MICROGALE.

1. Adult — P. Madagascar. C. I. Forsyth-Major.

Genus 254. **Oryzoryctes.**

Oryzoryctes! Grandidier, Rev. Mag. Zool., 2me Sér., XXII, 1870, p. 50. Type *Oryzoryctes! hova* Grandidier.

851. *Oryzoryctes hova* Grandidier.

Oryzoryctes! hova Grand., Rev. Mag. Zool., 2me Sér., xxii, 1870,
p. 50. Dobson, Mon. Insect., Pt. I, 1882, p. 72.

MADAGASCAR RICE-DIGGER.

1. Adult — P. Madagascar. C. I. Forsyth-Major.

852. *Oryzoryctes tetradactylus* A. Milne-Edwards & Grandidier.

Oryzoryctes! tetradactylus A. Milne-Edw. & Grand., Le Naturaliste,
iv, 1882, p. 55.

FOUR-TOED RICE-DIGGER.

1-2. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

3. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

853. *Oryzoryctes niger* Forsyth-Major.

Oryzoryctes niger F.-Major, Ann. Mag. Nat. Hist., 6th Ser., xviii,
1896, p. 321.

BLACK RICE-DIGGER.

1. Juv. ♀ P. Madagascar. C. I. Forsyth-Major.

Order X. **Chiroptera. Bats.**

Family I. **Pteropodidæ. Fruit Bats.**

Subfamily I. **Pteropodinæ.**

Genus 255. **Epomophorus.**

Epomophorus Bennett, Proc. Zool. Soc., 1835, p. 149. Type *Pteropus epomophorus* Bennett=*Pteropus macrocephalus* Ogilby.

Subgenus A. **Epomophorus.**

854. **Epomophorus gambianus** (Ogilby).

Pteropus gambianus Ogilby, Proc. Zool. Soc., 1835, p. 100.

Epomophorus crypturus Peters, Reis. nach Mossamb., Zool., 1, Säugeth., 1852, p. 26, pl. v, pl. XIII, figs. 1-6.

GAMBIA FRUIT BAT.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 256. **Pteropus.**

Pteropus Briss., Regn. Anim., 2d ed., 1762, p. 153. Type *Pteropus pteropus* Brisson=*Vespertilio vampyrus* Linnæus. (Part.)

855. **Pteropus edwardsi** Geoffroy.

Pteropus edwardsii Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 92.

Pteropus phaiops Temm., Mon. Mamm., 1, 1827, p. 178.

MILNE-EDWARDS'S FRUIT BAT.

1. Adult — P. "Ceylon." Ward's Nat. Scien. Establ., Rochester, N. Y.

856. **Pteropus celaeno** Hermann.

Pteropus celaeno Herm., Obs. Zool., 1, 1804, p. 13.

Pteropus edulis E. Geoff., Ann. Mus. Hist. Nat. Paris, 1810, p. 90.

Pteropus javanicus Desm., Mamm., 1820, p. 109.

Pteropus funereus Temm., Mon. Mamm., 11, 1835-41, p. 63.

Pteropus pluton Temm., Esquis. Zool., 1853, p. 56.

HARPY FRUIT BAT.

1. Adult — P. "Java." Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. "Australia". Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♂ P. Island of Leyte, Philippines. J. B. Steere.
4. Adult ♀ P. Island of Leyte, Philippines. J. B. Steere.

857. *Pteropus rubricollis* Geoffroy.

Pteropus rubricollis Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 93.

MAURITIUS FRUIT BAT.

1. Adult — P. Mauritius. Ward's Nat. Scien. Establ., Rochester, N. Y.

858. *Pteropus woodfordi* Thomas.

Pteropus woodfordi Thos., Ann. Mag. Nat. Hist., 6th Ser, 1, 1888, p. 156.

WOODFORD'S FRUIT BAT.

1. Adult ♂ P. Solomon Islands. E. Gerrard & Sons.

859. *Pteropus capistratus* Peters.

Pteropus capistratus Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1876, p. 316.

DUKE OF YORK ISLAND FRUIT BAT.

1. Adult — P. Duke of York Island. Ward's Nat. Scien. Establ., Rochester, N. Y.

860. *Pteropus poliocephalus* Temminck.

Pteropus poliocephalus Temm., Mon. Mamm., 1, 1827, p. 179.

AUSTRALIAN FRUIT BAT.

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

861. *Pteropus hypomelanus* Temminck.

Pteropus hypomelanus Temm., Esquis. Zool., 1853, p. 61.

Pteropus tricolor Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 108.

Pteropus spectrum Matschie, Abhandl. Senckenb. Ges., xxv, 1901, p. 268, pl. 12.

TRICOLOR FRUIT BAT.

- 1-2. Adult ♂ P. Concepcion, Island of Panay, Philippines. J. B. Steere.
- 3-4. Adult ♀ P. Concepcion, Island of Panay, Philippines. J. B. Steere.
5. Adult ♂ P. Guimaras, Island of Panay, Philippines. J. B. Steere.
6. Adult ♀ P. Guimaras, Island of Panay, Philippines. J. B. Steere.

862. *Pteropus ualanus* Peters.

Pteropus ualanus Peters, Sitzungsab. Gesell. Natur. Freund. Berl.,
1883, p. 1.

CAROLINE ISLANDS FRUIT BAT.

1. Adult ♂ Pres. Caroline Islands. A. G. Maddren.
- 2-4. Adult ♀ Pres. Caroline Islands. A. G. Maddren.

863. *Pteropus melanopogon* Schlegel.

Pteropus phaiops Temm., Mon. Mamm., II, 1835-41, p. 65.
(Part.)

Pteropus melanopogon Schlegel, Peters, Monatsb. K. Preuss.
Akad. Wiss. Berlin, 1867, p. 330. Dobson, Cat. Chirop. Brit.
Mus., 1878, p. 44.

SCHLEGEL'S FRUIT BAT.

1. Adult — P. "Duke of York Island"? Ward's Nat. Scien.
Establ., Rochester, N. Y.

864. *Pteropus jubatus* Eschscholtz.

Pteropus jubatus Eschsch., Zool. Atl., IV, 1831, p. 1, pl. 16. Temm.,
Mon. Mamm., II, 1835-41, p. 51.

Pteropus pyrocephalus! Meyen, Nov. Act. Acad. Cæs. Leop.-Carol.
Nat. Cur., XVI, p. 604.

MANED FRUIT BAT.

1. Adult — P. Singapore, Malacca. Ward's Nat. Scien. Establ.,
Rochester, N. Y.
2. Adult ♂ P. Concepcion, Island of Panay, Philippines. J. B.
Steere.
3. Adult ♀ P. Concepcion, Island of Panay, Philippines. J. B.
Steere.

865. *Pteropus aurinuchalis* Elliot.

Pteropus auri-nuchalis Elliot, Pub. Field Columb. Mus., I, 1896,
p. 77, pl. XII. Zool. Ser.

GOLDEN-NAPED FRUIT BAT.

- 1-2. Adult ♂ Type and paratype. P. Island of Leyte, Philip-
pines. J. B. Steere.

866. *Pteropus lucifer* Elliot.

Pteropus lucifer Elliot, Pub. Field Columb. Mus., I, 1896, p. 78,
pl. XIII. Zool. Ser.

BLACK FRUIT BAT.

- 1-2. Adult ♂ Type and paratype. P. Concepcion, Island of
Panay, Philippines. J. B. Steere.

Genus 257. **Cynonycteris.**

Cynonycteris Peters, Naturw. Reise nach Mossambique, Zool., 1, Säugeeth., 1852, p. 25. Type *Pteropus collaris* Illiger.

867. Cynonycteris dupreana (Pollen).

Pteropus dupreanus Pollen, Schleg., Proc. Zool. Soc., 1866, p. 419.

Cynonycteris dupreana Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 866.

POLLEN'S FRUIT BAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

868. Cynonycteris amplexicaudata (E. Geoffroy).

Pteropus amplexicaudatus E. Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 96.

Pteropus leschenaultii Desm., Mamm., 1820, p. 110.

Pteropus pyrivorus Hodgs., Jour. Asiat. Soc. Beng., 1835, p. 700.

Pteropus seminudus Kelaart, Jour. Asiat. Soc. Beng., 1852, p. 345.

Cynonycteris amplexicaudata Peters., Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 865.

Eleutherura marginata Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 118.

Eleutherura infumata Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 118.

Eleutherura philippinensis Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 119.

Cynonycteris infuscata Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1873, p. 487.

BIG-TAILED FRUIT BAT.

1-2. Adult — P. Dumaqueta, Philippine Islands. J. B. Steere.

Genus 258. **Cynopterus.**

Cynopterus F. Cuv., Dents des Mamm., 1825, p. 248. Type *Pteropus marginatus* Geoffroy = *Vespertilio sphinx* Vahl.

869. Cynopterus sphinx (Vahl).

Vespertilio sphinx Vahl, Skrivt. af Naturh.-Selsk., iv, Heft 1, 1799, p. 123.

Pteropus marginatus E. Geoff., Ann. Mus. Hist. Nat. Paris, xiv, p. 97. Temm., Mon. Mamm., 1, 1827, p. 202.

Cynopterus marginatus F. Cuv., Dents des Mamm., 1825, p. 248.

Pteropus tittheæcheilus Temm., Mon. Mamm., 1, 1827, p. 198.

Pachysoma diardii I. Geoff., Dict. Class. Hist. Nat., xiv, p. 705.

Pachysoma duvaucelii I. Geoff., Dict. Class. Hist. Nat., xiv, p. 705.

Pachysoma brevicaudatum I. Geoff., Dict. Class. Hist. Nat., xiv, p. 705.

Pteropus pyrivorus Hodg., Proc. Zool. Soc., 1836, p. 36.

Cynopterus horsfieldii Gray, List Spec. Mamm. Brit. Mus., 1843, p. 38.

Pachysoma luzoniense Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1861, p. 708.

Eleutherura marginata Gray, Proc. Zool. Soc., 1866, p. 64.

SPHINX BAT.

1. Adult ♂ P. Tulong River. E. Gerrard & Sons.

2. Adult ♀ P. Tulong River. E. Gerrard & Sons.

3. Adult — P. Balshore. E. Gerrard & Sons.

4. Adult — P. Sarawak, Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 259. **Nyctimene.**

Nyctimene Bechstein, in Penn. Allgem. Uebers. vierf. Thiere, II, 1800, pp. 615, 736. Type *Vespertilio cephalotes* Pallas.

Cephalotes Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, pp. 104-106, tab. 7.

Harpyia Illig., Prodr. Syst. Mamm. et Avium, 1811, p. 118. (nec Ochseneimer, 1810, Lepid.)

870. **Nyctimene palliatus** (Geoffroy).

Pteropus palliatus Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 99.

Cephalotes peronii Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 104, tab. 7.

Hypoderma moluccensis Quoy & Gaim., Voy. de l' 'Astrolabe,' I, 1830-33, p. 86, pl. XI.

Xantharpyia amplexicaudata Gray, Voy. 'Sulphur,' Mamm., 1844, p. 30.

PERON'S BAT.

1. Adult — P. Moluccas! E. Gerrard & Sons.

871. **Nyctimene cephalotes** (Pallas).

Vespertilio cephalotes Pall., Spicil. Zool., III, 1767, p. 10, figs. 1, 2.

Harpyia pallasii Temm., Mon. Mamm., II, 1835-41, p. 101, pl. XL, figs. 1-5.

Harpyia cephalotes Wagn., Schreb. Säugth., Suppl., I, 1844, p. 370.

Cynopterus (Uronycteris) albiventer Gray, Proc. Zool. Soc., 1862, p. 262.

PALLAS'S-BAT.

1. Adult — P. Kirwin Island, New Guinea. E. Gerrard & Sons.

Genus 260. **Bdelygma.**

Bdelygma Matschie, Flederm. Berl. Mus. Naturk., Lief 1, 1899, p. 82. Type *Harpyia major* Dobson.

872. **Bdelygma major** (Dobson).

Harpyia major Dobson, Proc. Zool. Soc., 1877, p. 187, figs. 1-3.

Id. Cat. Chiropt. Brit. Mus., 1878, p. 89.

HARPY BAT.

1. Adult — P. Duke of York Island. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 261. **Ptenochirus.**

Ptenochirus Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, Pt. II, 1861, p. 707. Type *Pachysoma jagorii* Peters.

873. **Ptenochirus lucasii** (Dobson).

Cynopterus (Ptenochirus) lucasii Dobson, Ann. Mag. Nat. Hist., 5th Ser., VI, 1880, p. 163.

LUCAS'S BAT.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Kiodotinæ.**

Genus 262. **Eonycteris.**

Eonycteris Dobson, Jour. Asiat. Soc. Beng., XLII, Pt. II, 1873, p. 204. Type *Macroglossus spelæus* Dobson.

874. Eonycteris spelæa (Dobson).

Macroglossus spelæus Dobson, Proc. Asiat. Soc. Beng., 1871, p. 106.

Eonycteris spelæa Dobson, Jour. Asiat. Soc. Beng., 1873, p. 204, pl. XIV, fig. 10.

CAVE BAT.

1. Adult — P. Malay Peninsula. Ward's Nat. Scienc. Establ., Rochester, N. Y.

Genus 263. **Melonycteris.**

Melonycteris Dobson, Proc. Zool. Soc., 1877, p. 119. (June.)

Type *Melonycteris melanops* Dobson.

Cheiropteruges Ramsay, Proc. Linn. Soc. N. S. Wales, 11, 1877, p. 17. (July.)

875. Melonycteris melanops Dobson.

Melonycteris melanops Dobson, Proc. Zool. Soc., 1877, p. 119, figs. 4-7. (June.)

Pteropus (*Cheiropteruges*) *alboscapulatus* Ramsay, Proc. Linn. Soc. N. S. Wales, 11, 1877, p. 17. (July.)

BLACK-FACED BAT.

1. Adult — P. Duke of York Island. Ward's Nat. Scienc. Establ., Rochester, N. Y.

Family II. **Rhinolophidæ. Nose-leaf Bats.**

Subfamily I. **Rhinolophinæ.**

Genus 264. **Rhinolophus.**

Rhinolophus Lacép., Tabl. Mamm., 1799, p. 15. Type *Vespertilio ferrum-equinum* Schreber.

876. Rhinolophus pearsoni Horsfield.

Rhinolophus pearsonii Horsf., Cat. Mamm. Mus. E. Ind. Co., 1851, p. 33. Dobson, Mon. Asiat. Chiropt., 1876, p. 43, figs. a. b.

Rhinolophus larvatus A. Milne-Edwards, Mamm. Tibet, 1872, p. 248, pls. xxxvii, fig. 1, xxxvii c, fig. 1.



FIG. LXV. RHINOLOPHUS FERRUM-EQUINUM. THE GREAT NOSE-LEAF BAT.

PEARSON'S NOSE-LEAF BAT.

1. Adult — P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

877. *Rhinolophus luctus* Temminck.

Rhinolophus luctus Temm., Mon. Mamm., II, 1835-1841, p. 24, pl. xxx.

Rhinolophus luctus var. *rufus* Eyd. & Gerv., Voy. 'Favorite,' Zool., 2me part., 1839.

Rhinolophus morio Gray, Ann. Mag. Nat. Hist., 1st. Ser., 1842, p. 257.

Rhinolophus perniger Hodgs., Jour. Asiat. Soc. Beng., XII, p. 414.

Aquias luctus Gray, Proc. Zool. Soc., 1847, p. 17.

MOURNING NOSE-LEAF BAT.

1. Adult ♀ P. Kenai-Balu, Borneo. A. Everett. (Alcohol.)

878. *Rhinolophus trifolius* Temminck.

Rhinolophus trifolius Temm., Mon. Mamm., II, 1835-1841, p. 27,
pl. 31.

Aquias trifolius Gray, Proc. Zool. Soc., 1847, p. 16.

TREFOIL NOSE-LEAF BAT.

1. Adult — P. Lawas Mountains, Borneo. E. Gerrard & Sons.

Subfamily II. **Hipposiderinæ.**Genus 265. **Hipposiderus.**

Hipposideros! Gray, Zool. Misc., 1831, pp. 37-38. Type *Vespertilio speoris* Schneider.

879. *Hipposiderus diadema* (E. Geoffroy).

Rhinolophus diadema E. Geoff., Ann. Mus. Hist. Nat. Paris, xx.,
1813, p. 263.

Rhinolophus nobilis Horsf., Zool. Research., 1822.

Rhinolophus griseus Meyen, Nov. Act. Acad. Cæs. Leop.-Carol.,
xvi, Pt. 2, p. 608.

Hipposideros! lankadiva Kelaart, Prodr. Faun. Zeyl., 1852-54,
p. 15.

CROWNED BAT.

- 1-2. Adult — P. Guimaras, Philippine Islands. J. B. Steere.
3. Adult — P. Sarawak, Borneo. E. Gerrard & Sons.

880. *Hipposiderus cyclops* (Temminck).

Phyllorhina cyclops Temm., Esquiss. Zool. Guiné, 1853, p. 75.

CYCLOPS BAT.

1. Adult ♀ P. Benito River, West Africa. G. L. Bates.

881. *Hipposiderus bicolor* (Temminck).

Rhinolophus bicolor Temm., Mon. Mamm., II, 1835-1841, p.
18.

Phyllorhina antricola Peters, Monatsb. K. Preuss. Akad. Wiss.
Berl., 1861, p. 709.

BICOLORED BAT.

1. Adult — P. Palkai-Hügel. E. Hartert.

Family III. **Nycteridæ.**Subfamily I. **Megaderminæ.**Genus 266. **Megaderma.**

Megaderma Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, pp. 187-190, 197-198. Type *Vespertilio spasma* Linnæus.

882. Megaderma gigas Dobson.

Megaderma gigas Dobson, Proc. Zool. Soc., 1880, p. 461, pl. XLVI.

GREAT VAMPIRE BAT.

1. Adult — P. Australia. E. Gerrard & Sons.

Subfamily II. **Nycterinæ.**Genus 267. **Nycteris.**

Nycteris Cuv. & Geoff., Méth. Mamm., in Mag. Encyclop., II, 1795, p. 186. Type *Vespertilio hispidus* Schreber.

Nicteris! Desm., Nouv. Dict. Hist. Nat., xv, 1803, p. 501.

Nycterus! Fisch., Zoogn., 1813, p. 18.

883. Nycteris hispida (Schreber).

Vespertilio hispidus Schreb., Säugth., I, 1775, p. 169, pl. LVI.

Nycteris daubentonii E. Geoff., Desc. Égypte, *1818, p. 113.

Rhinolophus martini Fraser, Proc. Zool. Soc., 1843, p. 25.

Nycterops pilosa Gray, Proc. Zool. Soc., 1866, p. 83.

Nycteris hispida Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1870, pl. figs. 1, 2.

HISPID VAMPIRE BAT.

1. Adult ♂ P. Upper Shire River, Brit. Central Africa. P. Rendall.

Family IV. **Vespertilionidæ. Common Bats.**Subfamily I. **Vespertilioninæ.**Genus 268. **Myotis.**

Myotis Kaup, Skizzirte Entw.-Gesch. u. Natürl. Syst. Europ. Thierw., I, 1829, p. 106. Type *Vespertilio murinus* Schreber = *Vespertilio myotis* Bechstein.

*See Sherborn, Proc. Zool. Soc., 1897, p. 285.

- Nystactes* Kaup, Skizzirte Entw.-Gesch. u. Natürl. Syst. Europ. Thierw., I, 1829, pp. 106, 108-109.
Vespertilio Keyserl. & Blas., Wiegman. Archiv f. Naturg., 1839, p. 306. (nec Linn.)
Selysius Bonap., Iconog. Faun. Ital., I, 1841, Intr. p. 3.
Brachyotus Kolen., Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, II, 1856, pp. 131, 174-177.
Isotus Kolen., Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, II, 1856, pp. 131, 177-179.
Aeorestes Fitzing., Sitzungsber. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXII, 1870, Abth. I, p. 427.
Comastes Fitzing., Sitzungsber. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXII, 1870, Abth. I, p. 565.

884. *Myotis velifer* (J. A. Allen).

- Vespertilio velifer* J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 177.
Myotis velifer Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 401. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 573. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 473. Zool. Ser.

LARGE-WINGED BAT.

- 1-4. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.
 5-9. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.
 10-17. Adult — Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.
 18-36. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)
 37-77. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)
 78-79. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.
 80-82. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.
 83-87. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
 88-93. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
 94-104. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber. (Alcohol.)

105-116. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber. (Alcohol.)

117-118. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber. (Alcohol.)

885. *Myotis evotis* (H. Allen).

Vespertilio evotis H. Allen, Mon. N. Am. Bats, 1864, p. 48.

Myotis evotis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 406. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 574. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 474. Zoöl. Ser.

PROMINENT-EARED BAT.

1. Adult ♂ P. Huchuca Mountains, Arizona. W. W. Price.

2. Adult ♀ P. Huchuca Mountains, Arizona. W. W. Price.

3. Adult ♂ Coll. Mount Whitney, California. E. Heller.

886. *Myotis milleri* Elliot.

Myotis milleri Elliot, Pub. Field Columb. Mus., III, 1903, p. 172.

Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 575. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 474. Zoöl. Ser.

MILLER'S BAT.

1-2. Adult ♂ Type and paratype. Coll. La Grulla, Lower California, Mexico. E. Heller.

887. *Myotis nigricans* (Maximilian).

Vespertilio nigricans Max., Beitr. Natur. Bras., 11, 1826, p. 266.

Vespertilio concinnus H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 280.

Myotis nigricans Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 575. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 475. Zoöl. Ser.

GRIZZLED BROWN BAT.

1. Adult — P. ———? E. Gerrard & Sons.

888. *Myotis yumanensis* (H. Allen).

Vespertilio yumanensis H. Allen, Mon. N. Amer. Bats, 1864, p. 58.

Myotis yumanensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 403. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 576. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 475. Zoöl. Ser.

FORT YUMA BAT.

1. Adult ♀ Coll. Fort Tejon, California. E. Heller.
2. Adult ♀ Coll. Argus Mountains, California. E. Heller.

a. *Myotis yumanensis saturatus* Miller.

Myotis yumanensis saturatus Miller, N. Am. Faun., No. 13, 1897, p. 68. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 403. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 577. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 475. Zoöl. Ser.

DARK YUMA BAT.

1. Adult — Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.
2. Adult — P. Chiliwack, British Columbia, Canada. C. K. Worthern.

889. *Myotis orinomus* Elliot.

Myotis orinomus Elliot, Pub. Field Columb. Mus., III, 1903, p. 228. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 577. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 476. Zoöl. Ser.

LA GRULLA BROWN BAT.

- 1-2. Adult ♂ Type and paratype. Coll. La Grulla, Lower California, Mexico. E. Heller.
3. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.

890. *Myotis californicus* (Audubon & Bachman).

Vespertilio californicus Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 285.

Vespertilio nitidus H. Allen, Proc. Acad. Nat. Scien. Phil., 1862 p. 247.

Vespertilio oregonensis H. Allen, Mon. N. Am. Bats, 1864, p. 61.

Vespertilio obscurus H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 281.

Vespertilio volans H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 282.

Vespertilio exilis H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 283.

Vespertilio tenuidorsalis H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 283.

Vespertilio yumanensis H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 283. (nec H. Allen, 1864.)

Vespertilio melanorhinus Merr., N. Am. Faun., No. 3, 1890, p. 46.

Vespertilio nitidus henshawi H. Allen, Mon. N. Am. Bats, 1894, p. 103.

Vespertilio nigricans H. Allen, Mon. N. Am. Bats, 1894, p. 97. (nec Max., 1826.)

Myotis californicus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 403. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 578. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 476. Zoöl. Ser.

LITTLE CALIFORNIA BAT.

1. Adult ♂ P. White Mountains, Arizona. W. W. Price.
2. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
3. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
4. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
5. Adult ♂ Coll. Mount Whitney, California. E. Heller.
- 6-9. Adult ♀ Coll. Mount Whitney, California. E. Heller.
- 10-11. Adult ♂ Coll. Fort Tejon, California. E. Heller.
12. Adult ♀ Coll. Fort Tejon, California. E. Heller.

a. *Myotis californicus caurinus* Miller.

Myotis californicus caurinus Miller, N. Am. Faun., No. 13, 1897, p. 72. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 404. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 477. Zoöl. Ser.

GRAHAM ISLAND BAT.

1. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthen.

b. *Myotis californicus pallidus* Stephens.

Myotis californicus pallidus Steph., Proc. Biol. Soc. Wash., XIII, 1900, p. 153. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 405. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 579. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 477. Zoöl. Ser.

PALE BAT.

1. Adult ♂ Coll. Panamint Mts., Inyo County, California. E. Heller.
- 2-4. Adult ♀ Coll. Panamint Mts., Inyo County, California. E. Heller.
5. Adult ♂ Coll. Mesquite Valley, California. E. Heller.
6. Adult ♀ Coll. Mesquite Valley, California. E. Heller.

891. *Myotis subulatus* (Say).

Vespertilio subulatus Say, in Long's Exped. Rocky Mts., II, 1823, p. 65.

Vespertilio gryphus var. (b) H. Allen, Mon. N. Am. Bats, 1894, p. 80.

Vespertilio gryphus var. *septentrionalis* Trouess., Cat. Mamm. t. Viv. q. Foss., 1897, p. 131.

Myotis subulatus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 405. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 580. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 478. Zool. Ser.

SMALL-WINGED BAT.

1. Adult — Pres. Mitchell, Indiana. S. E. Meek.

2-15. Adult ♂ Pres. Wyandotte Cave, Indiana. H. A. Rothrock.

16-42. Adult ♀ Pres. Wyandotte Cave, Indiana. H. A. Rothrock.

43. Adult ♀ Exch. Elmsford, New York. Am. Mus. Nat. Hist. N. Y. J. H. Healy.

44. Adult — P. Minnesota. Ward's Nat. Scien. Establ., Rochester, N. Y.

892. *Myotis lucifugus* (Le Conte).

Vespertilio lucifugus Le Conte, McMurtrie, Cuv. Anim. Kingd., I, 1831, App., p. 431.

Vespertilio affinis H. Allen, Mon. N. Am. Bats, 1864, p. 53.

Vespertilio carolinii Dobson, Cat. Chiropt. Brit. Mus., 1878, p. 325.

Vespertilio lucifugus austroriparius Rhoads, Proc. Acad. Nat. Scien. Phil., 1897, p. 227.

Myotis lucifugus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 402, fig. 84. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 580. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 478. Zool. Ser.

LITTLE BROWN BAT.

1-7. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.

8-11. Adult ♂ P. Waterloo County, Ontario, Canada. G. F. Dippie.

12-13. Adult — Pres. Greenway, Arkansas. L. Mitchell.

a. *Myotis lucifugus longicrus* (True).

Vespertilio longicrus True, Science, VIII, 1886, p. 588.

Vespertilio albescens H. Allen, Mon. N. Am. Bats, 1894, p. 92.
(nec Geoffroy.)

Myotis lucifugus longicrus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 402. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 581. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 479. Zoöl. Ser.

TRUE'S BAT.

1. Adult ♂ Coll. Inyo Mountains, California. E. Heller.
2. Adult ♀ Coll. Inyo Mountains, California. E. Heller.

893. *Myotis thysanodes* Miller.

Vespertilio albescens evotis H. Allen, Mon. N. Am. Bats, 1894, p. 90. (nec H. Allen, 1864.)

Vespertilio albescens velifer H. Allen, Mon. N. Am. Bats, 1894, p. 93. (nec J. Allen, 1890.)

Myotis thysanodes Miller, N. Am. Faun., No. 13, 1897, p. 80. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 572. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 479. Zoöl. Ser.

Myotis evotis thysanodes Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 406. Zoöl. Ser.

FRINGED BAT.

- 1-2. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. S. E. Meek. (Alcohol.)
3. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. S. E. Meek. (Alcohol.)

Genus 269. *Lasionycteris*.

Lasionycteris Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1865, p. 648. Type *Vespertilio noctivagans* Le Conte.

Scotophilus H. Allen, Mon. N. Am. Bats, 1864, p. 27. (Part., nec Leach.)

Cnephathophilus Fitzing., Sitzungsab. K. Akad. Wiss. Wien, LXII, 1870, Abth. I, p. 8.

Vesperides Coues, in Coues & Yarrow, Zoöl. Wheeler's Exped., 1875, p. 83.

Vesperugo Dobson, Cat. Chiropt. Brit. Mus., 1878, p. 183. (Part.)

894. *Lasionycteris noctivagans* (Le Conte).

Vespertilio noctivagans Le Conte, McMurtrie, Cuv. Anim. Kingd., Am. ed., I, 1831, p. 31.

Vespertilio auduboni Harl., Am. Month. Jour. Geol. & Nat. Hist., 1831, p. 220, pl. 11.

Vespertilio pulverulentus Temm., Mon. Mamm., 11, 1835-1841, p. 325.

Lasionycteris noctivagans Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 407, fig. 85. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 480. Zoöl. Ser.

NIGHT-WANDERING BAT.

1. Adult ♂ Pres. Jackson Park, Chicago, Illinois. E. B. Chope.
- 2-4. Adult ♀ Pres. Jackson Park, Chicago, Illinois. Chope & Kenkel,
5. Adult ♂ Pres. Oakwoods Cemetery, Chicago, Illinois. L. V. Kenkel.
6. Adult ♂ Pres. Glen Ellyn, Illinois. A. B. Wolcott.
7. Adult ♀ Coll. Minot, South Dakota. W. E. Snyder.
8. Adult — P. Red Deer River, Alberta, Canada. G. F. Dippie.
9. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.
10. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.

Genus 270. **Pipistrellus.**

Pipistrellus Kaup, Skizzirte Entwickl.-Gesch. u. Natürl. Syst. d. Europ. Thierw., Th. 1, 1829, pp. 97, 98. Type *Vespertilio pipistrellus* Schreber.

Vesperugo Keyserl. & Blas., Wieg. Archiv f. Naturg., 5ter Jahrg., Bd. 1, 1839, p. 312. (Part.)

Hypsugo Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, 11, 1856, pp. 131, 167-169.

Nannugo Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, 11, 1856, pp. 131, 169-172.

Scotophilus H. Allen, Mon. N. Am. Bats, 1864, p. 27. (Part., nec Leach.)

895. **Pipistrellus hesperus** (H. Allen).

Scotophilus hesperus H. Allen, Mon. N. Am. Bats, 1864, p. 43.

Vesperugo merriami Dobson, Cat. Chiropt. Brit. Mus., 1878, p. 228.

Pipistrellus hesperus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 409, fig. 86. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 582, figs. 108,

LXXXVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 480. Zoöl. Ser.

WESTERN BAT.

1. Adult ♀ P. Dulzura, California. L. A. Marsh.
2. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
- 3-4. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
5. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
- 6-7. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.
- 8-9. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
10. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
- 11-12. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 14-15. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
16. Adult ♂ Coll. Daggett, California. E. Heller.
17. Adult ♂ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
- 18-19. Adult ♀ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
20. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 21-22. Adult ♂ Coll. Palm Springs, California. E. Heller.
23. Adult ♀ Coll. Lone Pine, California. E. Heller.
24. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
25. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
26. Adult ♂ Coll. Fort Tejon, California. E. Heller.
27. Adult ♀ Coll. Fort Tejon, California. E. Heller.
28. Adult — P. California! Ward's Nat. Scien. Establ., Rochester, N. Y.
- 29-30. Adult ♂ Coll. Argus Mountains, California. E. Heller. (Alcohol.)
31. Adult ♀ Coll. Argus Mountains, California. E. Heller. (Alcohol.)

32. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller. (Alcohol.)
- 33-35. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller. (Alcohol.)
- 36-37. Adult ♂ Coll. Keeler, Inyo County, California. E. Heller. (Alcohol.)
38. Adult ♀ Coll. Old Woman's Spring, California. E. Heller. (Alcohol.)
39. Adult ♂ Coll. Old Woman's Spring, California. E. Heller. (Alcohol.)
40. Adult ♀ Coll. Bailey's Ranch, California. E. Heller. (Alcohol.)
- 41-42. Adult ♂ Coll. Bailey's Ranch, California. E. Heller. (Alcohol.)
- 43-47. Adult ♂ Coll. Fort Tejon, California. E. Heller. (Alcohol.)
48. Adult ♀ Coll. Fort Tejon, California. E. Heller. (Alcohol.)

a. Pipistrellus hesperus apus Elliot.

Pipistrellus hesperus apus Elliot, Pub. Field Columb. Mus., III, 1904, p. 269. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 583. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 481. Zoöl. Ser.

SWIFT BAT.

- 1-3. Adult ♂ Type and paratypes. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
4. Adult ♀ Paratype. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

896. *Pipistrellus subflavus* (F. Cuvier).

Vespertilio subflavus F. Cuv., Nouv. Ann. Mus. Hist. Nat. Paris, 1832, p. 17.

Vespertilio erythrodactylus Temm., Mon. Mamm., II, 1835-41, p. 238.

Vesperugo carolinensis H. Allen, Mon. N. Am. Bats, 1894, p. 121. (nec Geoffroy.)

Pipistrellus subflavus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 409. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 481. Zoöl. Ser.

YELLOWISH-BROWN BAT.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.

Genus 271. **Vespertilio.**

- Vespertilio** Linn., Syst. Nat., 1, 1758, p. 31; 1, 1766, p. 46. Type
Vespertilio murinus Linnæus. (nec Schreber.)
Eptesicus Rafin., Ann. Nat., 1, 1820, p. 2.
Cnephus Kaup, Skizzirte Entw.-Gesch. u. Natürl. Syst. Europ.
 Thierw., 1, 1829, p. 103.
Noctula Bonap., Iconog. Faun. Ital., 1, 1837, fasc. XXI.
Vesperugo Keyserl. & Blas., Wieg. Archiv f. Naturg., Bd. 1,
 1839, p. 312. (Part.)
Vesperus Keyserl. & Blas., Wieg. Archiv f. Naturg., Bd. 1,
 1839, p. 313.
Cateorus Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue
 Folge, 11, 1856, pp. 131, 162-163.
Meteorus Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue
 Folge, 11, 1856, pp. 131, 163-167.
Marsipolæmus Peters, Monatsb. K. Preuss. Akad. Wiss. Berl.,
 1872, p. 260.
Adelonycteris H. Allen, Proc. Acad. Nat. Scien. Phil., 1892, p. 466.

Subgenus A. **Vespertilio.**

897. Vespertilio fuscus Beauvois.

- Vespertilio fuscus* Beauv., Cat. Peale's Mus. Phil., 1796, p. 14.
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 410,
 fig. 87. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies,
 F. C. M. Pub., 14, Pt. 11, 1904, p. 587, figs. 109, LXXXVII.
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. In-
 dies, F. C. M. Pub., 16, 1905, p. 482. Zool. Ser.
Vespertilio carolinensis Geoff., Ann. Mus. Hist. Nat. Paris, VIII,
 1806, p. 193.
Vespertilio phaiops Rafin., Am. Month. Mag., 111, 1818, p. 445.
Eptesicus melanops Rafin., Ann. Nat., 1820, p. 2.
Vespertilio arquatus Say, Long's Exped. Rocky Mts., 1, 1823, p.
 167. (note.)
Vespertilio ursinus Temm., Mon. Mamm., 11, 1835-41, p. 235.
Scotophilus greenii Gray, List Spec. Mamm. Brit. Mus., 1, 1843,
 p. 30.

BROWN BAT.

- 1-3. Adult ♂ P. White Mountains, Arizona. W. W. Price.
 4. Adult ♀ P. White Mountains, Arizona. W. W. Price.
 5-10. Adult ♂ P. Chiricahua Mountains, Arizona. W. W.
 Price.



FIG. LXVI. VESPERTILIO FUSCUS. BROWN BAT.

- 11-20. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
21. Adult — Pres. Greenway, Arkansas. L. Mitchell.
- 22-25. Adult ♂ P. Waterloo County, Ontario. G. F. Dippie.
26. Adult ♀ P. Waterloo County, Ontario. G. F. Dippie.
27. Adult ♀ Exch. Hickman County, Kentucky. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
28. Adult ♂ P. Billings, Montana. E. T. Seton.
29. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 30-31. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 32-36. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
37. Adult ♀ Coll. Job Knob Mountain, West Virginia. T. Surber.
- 38-45. Adult ♂ Coll. Mount Whitney, California. E. Heller.
- 46-54. Adult ♀ Coll. Mount Whitney, California. E. Heller.
- 55-60. Adult ♀ Coll. Fort Tejon, California. E. Heller.
61. Adult ♂ Coll. Hot Springs, Panamint Mts., California. E. Heller. (Alcohol.)
62. Adult ♂ Coll. Fort Tejon, California. E. Heller. (Alcohol.)
- 63-66. Adult ♀ Coll. Fort Tejon, California. E. Heller. (Alcohol.)

a. Vespertilio fuscus bernardinus (Rhoads).

Eptesicus fuscus bernardinus Rhoads, Proc. Acad. Nat. Scien. Phil., 1901, p. 619.

Vespertilio fuscus bernardinus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 589. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 483. Zoöl. Ser.

SAN BERNARDINO BROWN BAT.

1. Adult ♂ Coll. La Grulla, Lower California, Mexico. E. Heller.
- 2-3. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 4-5. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 6-13. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.

b. Vespertilio fuscus miradorensis (H. Allen).

Scotophilus miradorensis H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 287.

Vespertilio fuscus miradorensis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 588. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 484. Zoöl. Ser.

MIRADOR BROWN BAT.

1. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 2-3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

c. Vespertilio fuscus peninsulæ Thomas.

Vespertilio fuscus peninsulæ Thos., Ann. Mag. Nat. Hist., 7th Ser., I, 1898, p. 43. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 589. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 484. Zoöl. Ser.

LOWER CALIFORNIA BROWN BAT.

1. Adult ♂ Coll. Parral, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.

d. Vespertilio fuscus propinquus (Peters).

Vesperus propinquus Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1872, p. 262.

Vespertilio fuscus propinquus Elliot, Mamm. Middle Amer. & W.

Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 589. Zoöl. Ser. *Id.*
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,
 VI, 1905, p. 484. Zoöl. Ser.

ALLIED BROWN BAT.

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller
 & Barber.

898. *Vespertilio minutus* Temminck.

Vespertilio minuta Temm., Monog. Mamm., II, 1835-41, p. 209.

Scotophilus minutus Tomes, Proc. Zoöl. Soc., 1861, p. 33.

LITTLE BAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 272. **Lasiurus.**

Lasiurus Gray, Zoöl. Misc., 1831, No. 1, p. 38. Type *Vespertilio borealis* Müller.

Atalapha Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1870,
 p. 907. (nec Rafn.)

899. *Lasiurus borealis* (Müller).

Vespertilio borealis Müll., Natursyst., Suppl., 1776, p. 21.

Vespertilio noveboracensis Erxl., Syst. Reg. Anim., I, 1777, p.
 155.

Vespertilio lasiurus Schreb., Säugth., Abth. I, 1781, Taf. LXIIB.

Vespertilio noveboracensis Bodd., Elench. Anim., I, 1785, p. 71.

Vespertilio rubellus Beauv., Cat. Peale's Mus. Phil., 1796, p. 204.

Vespertilio rubra Ord, Guthrie's Geogr., 2d Amer. ed., II, 1815,
 p. 291.

Vespertilio tessellatus Rafn., Am. Month. Mag., III, 1818, p. 445.

Vespertilio monachus Rafn., Am. Month. Mag., III, 1818, p. 445.

Vespertilio rufus Warden, Desc. États-Unis Amér., v, 1820, p. 606.

Lasiurus junceus Fitzinger, Sitzungsber. K. Akad. Wiss. Wien, LXII,
 1870, p. 46.

Atalapha borealis Rhoads, Amer. Nat., XXVIII, 1894, p. 523.

Lasiurus borealis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
 1901, p. 411; fig. 88. Zoöl. Ser. *Id.* Mamm. Middle Amer.

& W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 592. Zoöl.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 485. Zoöl. Ser.

RED BAT.

1-2. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat.
 Hist. N. Y. H. H. & C. S. Brimley.

3. Adult ♂ Exch. Patchogue, Long Island, New York. Am. Mus. Nat. Hist. N. Y. C. A. Smith.
4. Adult ♀ Pres. Jackson Park, Chicago, Illinois. H. Hanton.
5. Adult — Pres. Chicago, Illinois. C. E. Bragdon.
6. Adult — Pres. Maywood, Illinois. E. B. Chope.
7. Adult — Pres. Jackson Park, Chicago, Illinois. A. W. Slocum.
8. Adult ♂ Pres. Jackson Park, Chicago, Illinois. D. Zerberg.
9. Adult — Pres. Chicago, Illinois. Grace Wood.
10. Adult ♀ Pres. Jackson Park, Chicago, Illinois. E. Kuhn.
11. Adult — Pres. F. C. M., Jackson Park, Chicago, Illinois. P. Norris.
12. Adult ♀ Pres. Jackson Park, Chicago, Illinois. L. Kenkel.
13. Adult — Pres. Willow Springs, Illinois. W. J. Gerhard.
14. Adult ♂ Coll. Catawba, South Carolina. T. Surber.
15. Adult ♂ Pres. Greenway, Arkansas. L. Mitchell.
- 16-19. Adult ♀ Pres. Greenway, Arkansas. L. Mitchell.
20. Adult ♀ P. Chiricahua, Arizona. W. W. Price.
- 21-22. Juv. — P. Chiricahua, Arizona. W. W. Price.
23. Adult ♂ P. Toronto, Canada. G. F. Dippie.
24. Adult ♂ Pres. Jackson Park, Chicago, Illinois. A. J. Thompson.

a. Lasiurus borealis teliotis (H. Allen).

Atalapha teliotis H. Allen, Proc. Am. Phil. Soc., xix, 1891, p. 5.

Lasiurus borealis teliotis Elliot, Syn. N. Am. Mamm., F. C. M.

Pub., II, 1901, p. 413. Zool. Ser. *Id.* Mamm. Middle Amer.

& W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 593. Zool.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F.

C. M. Pub., VI, 1905, p. 486. Zool. Ser.

CALIFORNIA RED BAT.

1. Adult — Pres. Monterey, California. S. E. Meek. Leal & Pearson.

900. *Lasiurus cinereus* (Beauvois).

Vespertilio cinereus Beauv., Cat. Peale's Mus. Phil., 1796, p. 15.

Vespertilio pruinus Say, Long's Exped. Rocky Mts., I, 1823,

p. 167. (Footnote.)

Lasiurus cinereus Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,

1901, p. 413. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 595, figs. 110, LXXXVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 487. Zoöl. Ser.

HOARY BAT.

1. Adult ♂ Pres. Jackson Park, Chicago, Illinois. T. Wark.
2. Adult — Pres. Jackson Park, Chicago, Illinois. E. B. Chope.
3. Adult ♀ Pres. Jackson Park, Chicago, Illinois. H. W. Clark.
4. Adult ♀ Coll. Minot, South Dakota. W. E. Snyder.
5. Adult ♂ Exch. Nicasio, California. Am. Mus. Nat. Hist. N. Y. C. A. Allen.
6. Adult ♂ Coll. San Antonio, Lower California, Mexico. E. Heller.

Genus 273. *Dasypterus*.

Dasypterus Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1871, p. 912. Type *Lasiurus intermedius* H. Allen.

a. Dasypterus ega panamensis Thomas.

Dasypterus ega panamensis Thos., Ann. Mag. Nat. Hist., 7th Ser., VIII, 1901, p. 246. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 597. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 487. Zoöl. Ser.

PANAMA BAT.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 274. *Nycticeius*.

Nycticeius Rafin., Journ. Phys., LXXXVIII, 1819, p. 417. Type (by elimination) *Vespertilio humeralis* Rafinesque.

Scotophilus Leach, Trans. Linn. Soc. Lond., XIII, Pt. I, 1821, pp. 69, 77-72. (nec Hubner, 1816, Lepid.)

901. *Nycticeius humeralis* (Rafinesque).

Vespertilio humeralis Rafin., Amer. Month. Mag., III, 1818, p. 445.

Nycticea crepuscularis Le Conte, McMurtrie, Cuv. Anim. Kingd., I, 1831, p. 432.

Nycticejus humeralis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 415, fig. 90. Zoöl. Ser.

Nycticeius humeralis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 598, figs. 112, xc. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 488. Zoöl. Ser.

RAFINESQUE'S BAT.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. C. S. Brimley.

902. *Nycticeius kuhli* (Leach).

Scotophilus kuhlii Leach, Trans. Linn. Soc. Lond., XIII, 1821, p.

72.

Vespertilio temminckii Horsf., Zoöl. Research., 1824.

Vespertilio belangeri I. Geoff., Bélanger. Voy. Indes-Orient., 1834, pp. 87, 92, pl. 3.

Vespertilio castaneus Gray, Illust. Ind. Zoology, 1830-34.

Nycticejus luteus Blyth, Jour. Asiat. Soc. Beng., XX, p. 157.

Nycticejus flaveolus Blyth, Horsf. Cat. Mamm. Mus. E. I. Co., 1851, p. 37.

COMMON EASTERN YELLOW BAT.

1. Adult ♂ P. Panay, Philippine Islands. Bourns & Worcester.
- 2-3. Adult ♀ P. Panay, Philippine Islands. Bourns & Worcester.
4. Adult ♂ P. Concepcion, Philippine Islands. Bourns & Worcester.
5. Adult — P. Leyte, Philippine Islands. Bourns & Worcester.
6. Adult ♂ P. Bongon, North Borneo. E. Gerrard & Sons. (Alcohol.)

Genus 275. **Rhogoessa.**

Rhogeëssa! H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 285.
Type *Rhogeëssa! tumida* H. Allen.

903. *Rhogoessa tumida* H. Allen.

Rhogeëssa! tumida H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 286.

Rhogeëssa tumida Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 601, figs. 113, xci. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 498. Zoöl. Ser.



FIG. LXVII. RHOGOESSA TUMIDA. RESTLESS BAT.

RESTLESS BAT.

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 276. **Miniopterus.**

Miniopterus Bonap., Icon. Faun. Ital., 1, fasc. xx, 1837; fasc. xxi, pl.—, fig. 1. Type *Vespertilio ursinii* Bonaparte = *Vespertilio schreibersii* Natterer.

Miniopterus Gray, Ann. Mag. Nat. Hist., 3d Ser., xvii, 1866, p. 91.

Minneopterus Lampe, Jahrb. Nassau. ver. Naturkunde, Jahrg. 53, Cat. Säug. Samml., 1900, p. 12.

904. Miniopterus schreibersii (Natterer).

Vespertilio schreibersii Natt., in Kuhl's Deutsche Flederm. Wetter. Ann., iv, 1819, p. 41.

Vespertilio natalensis Smith, S. Afr. Quart. Jour., ii, 1834, p. 59.

Vespertilio fuliginosa Hodg., Jour. Asiat. Soc. Beng., iv, 1835, p. 700.

Miniopterus ursinii Bonap., Icon. Faun. Ital., 1837.

Trilatitus blepotis Gray, Ann. Mag. Nat. Hist., x, 1842, p. 258.

Vespertilio eschscholtzii Waterh., Proc. Zoöl. Soc., 1845, p. 4.

LONG-WINGED BAT.

1. Adult — P. Japan. E. Gerrard & Sons.

905. Miniopterus scotinus Sundevall.

Miniopterus scotinus Sundev., Öfvers. Vetensk. Akad. Förh., 1846, p. 119.

Miniopterus minor Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1866, p. 885.

SUNDEVALL'S LONG-WINGED BAT.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Subfamily II. **Plecotinæ.**

Genus 277. **Corynorhinus. Big-eared Bats.**

Corynorhinus H. Allen, Proc. Acad. Nat. Scien. Phil., 1865, p. 173.

Type *Plecotus macrotis* Le Conte.

Plecotus Le Conte, McMurtrie, Cuv. Anim. Kingd., 1, 1831, App., p. 431. (nec Geoffroy, 1813.)

Synotis H. Allen, Mon. N. Am. Bats, 1864, p. 62. (nec Keyserl. & Blasius, 1839.)

a. Corynorhinus macrotis townsendi (Cooper).

Plecotus townsendii Cooper, Ann. N. Y. Lyc. Nat. Hist., IV, 1837, p. 73.

Corynorhinus macrotis townsendi Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 400, fig. 83. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 604. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 491. Zoöl. Ser.

TOWNSEND'S BIG-EARED BAT.

1. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

2-6. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

Genus 278. **Plecotus.**

Plecotus Geoff., Desc. Égypte, II, 1813, pp. 112, 118-119, pl. 2, No.

3. Type ———?

906. **Plecotus auritus** (Linnæus).

Vespertilio auritus Linn., Syst. Nat., I, 1766, p. 47.

Vespertilio otus Boie, Isis, 1825, p. 1206.

Vespertilio cornutus Faber, Isis, 1826, p. 515.

Vespertilio brevimanus Jenyns, Trans. Linn. Soc. Lond., XVI, 1828, p. 55.

Plecotus auritus Geoff., Descrip. Égypte, 1813, p. 118.

Plecotus christii Gray, Mag. Zoöl. & Bot., II, 1838, p. 495.

LONG-EARED BAT.

1. Adult ♂ P. Brunswick, Germany. J. A. Loring. (Alcohol.)

Subfamily III. **Antrozoinæ.**Genus 279. **Antrozous.**

Antrozous H. Allen, Proc. Acad. Nat. Scien. Phil., 1862, p. 248.
Type *Vespertilio pallidus* Le Conte.

907. Antrozous pallidus (Le Conte).

Vespertilio pallidus Le Conte, Proc. Acad. Nat. Scien. Phil., 1856,
P. 437.

Antrozous pallidus Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,
II, 1901, p. 396, fig. 82. Zoöl. Ser. *Id.* Mamm. Middle Amer.
& W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 605, figs. 115,
XCIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.
Indies, F. C. M. Pub., VI, 1905, p. 491. Zoöl. Ser.

BIG-EARED PALE BAT.

1. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.
2. Adult ♀ Coll. Coso Mts., Inyo County, California. E. Heller.
3. Adult ♂ P. White Mountains, Arizona. W. W. Price.
- 4-8. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 9-21. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

a. Antrozous pallidus pacificus Merriam.

Antrozous pallidus pacificus Merr., Proc. Biol. Soc. Wash., XI,
1897, p. 180. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,
1901, p. 397. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W.
Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 607. Zoöl. Ser. *Id.*
Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,
VI, 1905, p. 491. Zoöl. Ser.

PACIFIC BIG-EARED BAT.

1. Adult ♂ Topotype. Coll. Fort Tejon, California. E. Heller.
- 2-4. Adult ♀ Topotypes. Coll. Fort Tejon, California. E. Heller.
5. Adult ♀ P. San Rafael, California. C. K. Worthern.

- 6-10. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
 11-23. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

Genus 280. **Nyctophilus.**

Nyctophilus Leach, Trans. Linn. Soc. Lond., XIII, Pt. 1, 1821, p. 78. Type *Nyctophilus geoffroyi* Leach.

908. **Nyctophilus timoriensis** E. Geoffroy.

Nyctophilus timoriensis E. Geoff., Ann. Mus. Hist. Nat. Paris, VIII, 1806, p. 200.

AUSTRALIAN BIG-EARED BAT.

1. Adult ♂ P. Australia? E. Gerrard & Sons. (Alcohol.)

Family V. **Noctilionidæ.**

Subfamily I. **Sacopterinae.**

Genus 281. **Emballonura.**

Emballonura Temm., Van d. Hoev., Tijd. Nat. Gesch. en Physiol., v, 1838, p. 22. Type *Emballonura monticola* ? Temminck.

Mosia Gray, Ann. Mag. Nat. Hist., 1st Ser., XI, 1843, p. 117.

Subgenus A. **Mosia.**

909. **Emballonura nigrescens** (Gray).

Mosia nigrescens Gray, Zoöl. Voy. 'Sulphur,' Mamm., 1844, p. 23.

BLACKISH SHEATH-TAILED BAT.

1. Adult ♂ P. Moluccas ? E. Gerrard & Sons. (Alcohol.)

Genus 282. **Sacopteryx.**

Sacopteryx Illig., Prodr. Syst. Mamm. et Av., 1811, p. 121. Type *Vespertilio lepturus* Schreber.

Urocryptus Temm., Van d. Hoev., Tijd. Nat. Gesch. en Physiol., v, 1838-39, pp. 31-34, pl. II, figs. 3, 4.

Centronycteris Gray, Mag. Zoöl. & Bot., II, 1838, p. 499.

910. Saccopteryx bilineata (Temminck).

Urocryptus bilineatus Temm., Van d. Hoef., Tijds. Nat. Gesch. en Physiol., v, 1838, p. 33, figs. 3, 4.

Saccopteryx bilineata Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 610, fig. 117. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 493. Zoöl. Ser.

WHITE-STRIPED BAT.

- 1-2. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 3-5. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 6-18. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
- 19-49. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

Genus 283. Balantiopteryx.

Balantiopteryx Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 476. Type *Balantiopteryx plicata* Peters.

911. Balantiopteryx plicata Peters.

Balantiopteryx plicata Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 476. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 611, figs. 118, xcv. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 493. Zoöl. Ser.

POUCHED BAT.

- 1. Adult — Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
- 2. Adult ♂ P. Lower California, Mexico. J. F. Abbott.
- 3. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 4-7. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 8-28. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)
- 29-55. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)
- 56-59. Adult — Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)

Genus 284. **Taphozous.**

- Taphozous** Geoff., Desc. Égypte, II, 1813, pp. 113-114, 126-128, pl. 3, No. 1. Type *Taphozous perforatus* Geoffroy.
Taphonycteris Dobs., Proc. Zool. Soc., 1875, pp. 548, 555-556.

Subgenus A. *Taphonycteris*.912. **Taphozous affinis** Dobson.

Taphozous affinis Dobson, Ann. Mag. Nat. Hist., 4th Ser., XVI, 1875, p. 232.

ALLIED SHEATH-TAILED BAT.

1. Adult ♂ P. ———? E. Gerrard & Son. (Alcohol.)

Family VI. **Molossidæ.**Subfamily I. **Molossinæ.**Genus 285. **Cheiromeles.**

- Cheiromeles** Horsf., Zool. Research. Java, 1824, figs. A-G, I-M, O-P. Type *Cheiromeles torquatus* Horsfield.

913. **Cheiromeles torquatus** Horsfield.

Cheiromeles torquatus Horsf., Zool. Research. Java, 1824.

Dysopes cheiropus Temm., Mon. Mamm., I, 1827, p. 218, pl. XVII.

Cheiromeles caudatus Temm., Mon. Mamm., II, 1835-41, p. 348, pl. XLVI.

SCANTILY HAired BAT.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 286. **Molossus.**

- Molossus** E. Geoff., Ann. Mus. Hist. Nat. Paris, VI, 1805, p. 151.

Type *Molossus rufus* E. Geoffroy.

Dysopes Illig., Prodr. Syst. Mamm. et Av., 1811, p. 122.

a. *Molossus rufus obscurus* (E. Geoffroy).

Molossus obscurus E. Geoff., Ann. Mus. Hist. Nat. Paris, VI, 1805, p. 155.

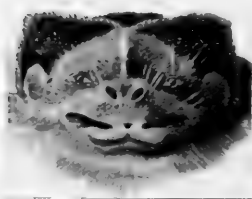


FIG. LXVIII. MOLOSSUS RUFUS. RUFOUS MASTIFF BAT.

Molossus longicaudatus E. Geoff., Ann. Mus. Hist. Nat. Paris, vi, 1805, p. 155.

Molossus acuticaudatus Desm., Mamm., 1820, p. 116.

Dysopes velox Temm., Mon. Mamm., i, 1827, p. 234.

Molossus juliginosus Gray, Mag. Zool. & Bot., ii, 1838, p. 501.

Dysopes olivaceo-fuscus Wagn., Abh. Akad. Münch., v, 1844, p. 202.

Dysopes jumarius Burm., Syst. Uebers. Thiere Bras., i, 1854, p. 71.

Molossus aztecus Sauss., Rev. Mag. Zool., 2me Sér., xii, 1860, p. 285.

Molossus rufus obscurus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. ii, 1904, p. 620. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 495. Zool. Ser.

DUSKY MASTIFF BAT.

1. Adult ♂ P. Court House, Tobago, British West Indies. P. Rendell.

914. *Molossus nigricans* Miller.

Molossus nigricans Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 395. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. ii, 1904, p. 620. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 496. Zool. Ser.

BLACKISH MASTIFF BAT.

1-6. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

7-15. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

915. *Molossus pretiosus* Miller.

Molossus pretiosus Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 396.

EXTRAVAGANT BAT.

1. Adult ♀ Exch. Venezuela. U. S. Nat. Mus. Lyon & Robinson.

Genus 287. **Nyctinomops.**

- Nyctinomops** Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 393.
Type *Nyctinomus femorosaccus* Merriam.

916. Nyctinomops femorosaccus (Merriam).

- Nyctinomus femorosaccus* Merr., N. Am. Faun., No. 2, 1889, p. 23. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 417. Zoöl. Ser.
Nyctinomops femorosaccus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 626. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 498. Zoöl. Ser.

PALM SPRINGS FREE-TAILED BAT.

1. Adult ♀ Topotype. Coll. Palm Springs, California. E. Heller. (Alcohol.)

Genus 288. **Nyctinomus.**

- Nyctinomus** E. Geoff., Desc. Égypte, Mamm., II, 1813, pp. 114, 128-130, pl. 2, No. 2. Type *Nyctinomus aegyptiacus* E. Geoffroy.
Dinops Savi, Nouv. Giorn. de Lett., 1825, p. 230.
Dysopes Cretzsch., Rüpp. Atl. Reis. Nordl. Afr., Zoöl., 1826, p. 69. (nec Illig.)

917. Nyctinomus mexicanus Saussure.

- Nyctinomus mexicanus* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 283. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 629, fig. 125. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 500. Zoöl. Ser.
Nyctinomus mohavensis Merr., N. Am. Faun., No. 2, 1889, p. 25. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 418. Zoöl. Ser.
Nyctinomus brasiliensis californicus H. Allen, Mon. N. Am. Bats, 1894, p. 166.
Nyctinomus brasiliensis Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 417. Zoöl. Ser. (nec Geoffroy.)

MEXICAN FREE-TAILED BAT.

- 1-7. Adult ♂ Coll. Enterprise, Florida. T. Surber.
 8-17. Adult ♀ Coll. Enterprise, Florida. T. Surber.
 18-26. Adult — Coll. Enterprise, Florida. T. Surber.
 27. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. L. W. Brownell.
 28. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
 29. Adult ♂ Exch. Guadalajara, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.
 30. Adult ♀ Exch. Guadalajara, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.
 31-36. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.
 37-50. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.
 51-55. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)
 56-86. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)
 87-88. Adult ♂ Coll. Fort Tejon, California. E. Heller.
 89-94. Adult ♀ Coll. Fort Tejon, California. E. Heller.
 95. Adult ♀ Coll. Palm Springs, California. E. Heller.
 96-97. Adult ♀ P. ———? E. Gerrard & Sons. (Alcohol.)
 98. Adult ♂ Coll. San José, California. S. E. Meek. (Alcohol.)
 99. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller. (Alcohol.)
 100-106. Adult ♂ Coll. Mexico. Heller & Barber. (Alcohol.)
 107-108. Adult ♀ Coll. Mexico. Heller & Barber. (Alcohol.)

918. *Nyctinomus antillularum* Miller.

Nyctinomus antillularum Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 398.

DOMINICAN FREE-TAILED BAT.

1. Adult ♀ Paratype. Exch. Island of Dominica. U. S. Nat. Mus. H. S. Branch.

919. *Nyctinomus acetabulosus* (Peters).

Molossus acetabulosus Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1869, p. 402.

Nyctinomus acetabulosus Desm., Mamm., 1820, p. 117.

Nyctinomus natalensis Smith, Illustr. S. Afr. Zool., 1847, pl. 49.

Nyctinomus (Mormopterus) jugularis Peters, Proc. Zool. Soc., 1865, p. 468.

MADAGASCAR FREE-TAILED BAT.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Family VII. **Thyropteridae. Funnel-eared Bats.**

Genus 289. **Chilonatalis.**

Chilonatalus (sic) Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 326. Type *Natalus! micropus* Dobson.

920. **Chilonatalis brevimanus** Miller.

Natalus! micropus Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 169. (nec Dobson.)

Natalus! (Chilonatalus!) brevimanus Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 328.

Chilonatalis brevimanus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 636, figs. 128, CIII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 502. Zool. Ser.

SHORT-HAND BAT.

1. Adult ♂ No history. (Alcohol.)

Family VIII. **Phyllostomatidae. Vampire Bats.**

Subfamily I. **Mormopinæ.**

Genus 290. **Chilonycteris.**

Chilonycteris Gray, Ann. Nat. Hist., or Mag. Zool. Bot. Geol., IV, 1839, p. 4. Type *Chilonycteris macleayii* Gray.

Lobostoma Gundl., Wiegmann Archiv f. Naturg., I, 1840, p. 356.

Phyllodia Gray, Proc. Zool. Soc., 1843, p. 50.

921. **Chilonycteris personata** Wagner.

Chilonycteris personata Wagn., Archiv f. Naturg., IX, 1843, p. 367. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 641. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 504. Zool. Ser.

MASKED BAT.

1. Adult — P. Guatemala. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 291. ***Pteronotus**.

Pteronotus Gray, Mag. Zoöl. & Bot., 11, 1838, p. 500. Type *Pteronotus davyi* Gray. (nec Rafinesque, nomen nudum.)
Dermonotus Gill, Proc. Biol. Soc. Wash., XIV, 1901, p. 177.

922. **Pteronotus davyi** Gray.

Pteronotus davyi Gray, Mag. Zoöl. & Bot., 11, 1838, p. 500.
Dermonotus davyi Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 644, figs. 131, CVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 506. Zoöl. Ser.

DAVY'S BAT.

1. Adult — Exch. State of Michoacan, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

a. *Pteronotus davyi fulvus* (Thomas).

Chilonycteris davyi fulvus Thos., Ann. Mag. Nat. Hist., 6th Ser., X, 1892, p. 410.
Dermonotus davyi fulvus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 646. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 506. Zoöl. Ser.

LAS PEÑAS BAT.

1. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

Genus 292. **Mormops**.

Mormoops (sic) Leach, Trans. Linn. Soc., XIII, 1820, p. 76. Type *Mormoops! blainvillii* Leach.

a. *Mormops blainvillii cinnamomea* (Gundlach).

Lobostoma cinnamomeum Gundl., Wieg. Archiv f. Naturg., VI, 1840, p. 357.
Mormops blainvillii cinnamomea Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 649. Zoöl. Ser.

* See Miller, Proc. Biol. Soc. Wash., XVIII, 1905, p. 223.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 507. Zoöl. Ser.

CINNAMON BAT.

1. Adult ♂ P. Aquacate, San Domingo. G. K. Cherrie.

923. *Mormops intermedia* Miller.

Mormoops! intermedia Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 403.

INTERMEDIATE BAT.

1. Adult ♂ Exch. Curaçao, Venezuela. U. S. Nat. Mus. L. J. Guthrie.

Subfamily II. **Phyllostomatinae.**Genus 293. **Otopterus.**

Otopterus Lydekker, in Flow. & Lydekk. Mamm. Living & Extinct, 1891, p. 673. Type *Macrotus waterhousii* Gray.

Macrotus Gray, Proc. Zoöl. Soc., 1843, p. 21. (nec Leach, 1816, Vespertil; nec Dejean, 1833, Coleopt; nec Reid, 1836, Marsupialia.)

924. *Otopterus waterhousii* (Gray).

Macrotus waterhousii Gray, Proc. Zoöl. Soc., 1843, p. 21.

Otopterus waterhousii Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 652, figs. 134, CIX. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 508. Zoöl. Ser.

WATERHOUSE'S LARGE-EARED BAT.

- 1-2. Adult ♂ P. San Domingo City, Haiti. G. K. Cherrie.
3. Adult ♂ P. "Guadjara." E. Gerrard & Sons. (Alcohol.)



FIG. LXIX OTOPTERUS WATERHOUSII. WATERHOUSE'S LARGE-EARED BAT.

925. Otopterus mexicanus (Saussure).

Macrotus mexicanus Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 486.

Otopterus mexicanus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 653. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 510. Zoöl. Ser.

SAUSSURE'S LARGE-EARED BAT.

1. Adult ♂ Exch. Tehuantepec, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

926. Otopterus bocourtianus (Dobson).

Macrotus bocourtianus Dobson, Ann. Mag. Nat. Hist., 4th Ser., 1876, p. 436.

Macrotus mexicanus J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 179.

Otopterus bocourtianus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 654. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 510. Zoöl. Ser.

BOCOURT'S LARGE-EARED BAT.

1. Adult — Pres. Yucatan.

927. Otopterus bulleri (H. Allen).

Macrotus bulleri H. Allen, Proc. Am. Phil. Soc., XXVIII, 1890, p. 73.

Otopterus bulleri Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 654. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 510. Zoöl. Ser.

BULLER'S LARGE-EARED BAT.

1-2. Adult ♂ Topotypes. Exch. Bolaños, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

Genus 294. **Vampyrus.**

Vampyrus Leach. Trans. Linn. Soc., XIII, 1821, p. 79. Type *Vespertilio spectrum* Linnæus.

928. Vampyrus auritus Peters.

Vampyrus auritus Peters, Abhandl. Akad. Wiss. Berl., 1856, p. 305, pl. II, fig. 1.

Chrotopterus auritus Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1865, p. 505.

GREAT-EARED BAT.

1. Adult ♂ Pres. Buenavista, Yucatan. G. F. Gaumer.

Genus 295. **Micronycteris.**

Micronycteris Gray, Proc. Zool. Soc., 1866, p. 113. Type *Phyllophora megalotis* Gray.

Schizostoma Gerv., Expéd. du Comt. de Castelnau Amér. Sud, Zool., 1855, p. 49. (nec Bronn, 1835, Mollusca.)

Vampyrella Reinh., Vidensk. Meddel. Naturh. Foren. Kjöbenh., 3 Aartis, IV, 1872, p. 111.

929. **Micronycteris megalotis** (Gray).

Phyllophora megalotis Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257.

Phyllostoma elongata Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257. (nec Geoffroy.)

Phyllostoma scrobiculatum Wagn., Schreb. Säugth., Suppl., v, 1855, p. 627.

Micronycteris megalotis Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 662, figs. 138, cxii. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 513. Zool. Ser.

LARGE-EARED VAMPIRE BAT.

1. Adult ♂ P. Richmond, Island of Tobago, Brit. W. I. P. Rendall.

a. *Micronycteris megalotis mexicana* Miller.

Micronycteris megalotis mexicanus Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 329. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 662. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 513. Zool. Ser.

MEXICAN VAMPIRE BAT.

- 1-3. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
 4-6. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
 7. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
 8-9. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

Genus 296. **Phyllostoma.**

Phyllostomus (sic) Lacép., Tabl. Div. Sous-div. Ordres et Genres des Mamm., 1799, p. 16. Type *Vespertilio hastatus* Pallas.

930. Phyllostoma verrucosum Elliot.

Phyllostoma verrucosum Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 236.

WARTY-LIPPED BAT.

- 1-3. Adult ♀ Type and paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber.
- 4-9. Adult ♂ Paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber.
- 10-36. Adult ♂ Paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)
- 37-41. Adult ♀ Paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)

931. Phyllostoma hastatum (Pallas).

Vespertilio hastatus Pallas, Spicil. Zool., fasc. III, 1767, p. 7.

Phyllostomus! *maximus* Max., Reise Bras., II, 1820-21, p. 242.

Phyllostoma hastatum Elliot, Mamm. Middle Amer. & W. Indies,

F. C. M. Pub., IV, Pt. II, 1904, p. 666, figs. 140, CXIV. Zool.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.

Pub., VI, 1905, p. 514. Zool. Ser.

SPEAR-NOSED BAT.

- 1-2. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 3. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 4. Adult—P. Peru. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. LXX. *PHYLLOSTOMA HASTATUM*.
SPEAR-NOSED BAT.

Genus 297. **Hemiderma.**

Hemiderma Gerv., Expéd. du Comt. de Castelnau Amér. Sud, Zool., Mamm., 1855, p. 43. Type *Phyllostoma brevicaudum* Maximilian.

Carollia Gray, Mag. Zoöl. & Bot., II, 1838, p. 488. (nec Cantraine, 1837, Mollusca.)

932. Hemiderma subrufum Hahn.

Hemiderma subrufum Hahn, Proc. Biol. Soc. Wash., XVIII, 1905, p. 247.

REDDISH BROWN SHORT-TAILED BAT.

1-3. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

4-24. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

25-27. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

28-30. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

31-32. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

33. Adult ♀ Pres. Cayenne, French Guiana. Benj. T. Gault. Cherrie & Gault.

34-39. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

40-47. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

48. Adult ♀ P. Caparo Valley, Trinidad. P. Rendall.

49. Adult — P. Venezuela. Deyrolle Fils.

Subfamily III. **Glossophaginæ.**Genus 298. **Glossophaga.**

Glossophaga E. Geoff., Mém. Mus. Hist. Nat. Paris, IV, 1818, pp. 413, 418, pls. 17, 18. Type *Vespertilio soricinus* Pallas.

Phyllophora Gray, Mag. Zoöl. & Bot., II, 1838, p. 489.

Nicon Gray, Proc. Zoöl. Soc., 1847, p. 15.

933. Glossophaga mutica Merriam.

Glossophaga mutica Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 18.

Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV,

Pt. II, 1904, p. 671. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 516. Zoöl. Ser.

MARIA MADRE ISLAND BAT.

- 1-3. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 4-5. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 6-8. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 9-12. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 13-33. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
- 34. Juv. ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
- 35-91. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
- 92-95. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 96-101. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 102-104. Adult — P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

934. *Glossophaga longirostris* Miller.

Glossophaga longirostris Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 330.

LONG-NOSED BAT.

- 1. Adult ♀ Exch. Macuto, Venezuela. U. S. Nat. Mus. Lyon & Robinson. (Alcohol.)

935. *Glossophaga elongata* Miller.

Glossophaga elongata Miller, Proc. Biol. Soc. Wash., 1900, p. 124.

NARROW-SKULL BAT.

- 1. Adult ♀ Exch. Savonet, Curaçoa, Venezuela. U. S. Nat. Mus. L. J. Guthrie. (Alcohol.)

936. *Glossophaga soricina* (Pallas).

Vespertilio soricinus Pall., Misc. Zool., 1766, p. 48, pl. iv, figs. 16-18, pl. v.

Glossophaga amplexicaudata E. Geoff., Mém. Mus. Hist. Nat. Paris, IV, 1818, p. 418, pl. XVIII.

Phyllophora nigra Gray, Voy. 'Sulphur,' Mamm., 1844, p. 18, pl. v, fig. 1.

Monophylla leachii Gray, Voy. 'Sulphur,' Mamm., 1844, p. 18.

Nicon caudifer Gray, Ann. Mag. Nat. Hist., 1st Ser., XIX, 1847, p. 407.

Glossophaga soricina Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 672, figs. 142, CXVI. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 516. Zool. Ser.

SHREW-LIKE BAT.

1-2. Adult — No history.

3. Adult — P. No history. E. Gerrard & Sons. (Alcohol.)

4. Adult — P. Central America. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 299. *Chæronycteris*.

Choeronycteris Licht., in Tschudi's Faun. Peruana, Mamm., 1844, p. 70, Taf. III. Type *Choeronycteris mexicana* Tschudi.

937. *Chæronycteris mexicana* Tschudi.

Choeronycteris mexicana Tsch., Faun. Peruana, 1844, p. 72, Taf. III, fig. 3. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 673, fig. CXVII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 517. Zool. Ser.

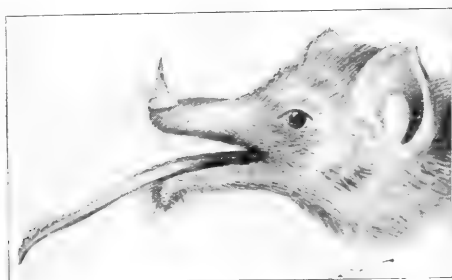


FIG. LXXI. CHÆRONYCTERIS MEXICANA.
TRES MARIAS ISLANDS BAT.

TRES MARIAS ISLANDS BAT.

1. Adult — P. ————— ? E. Gerrard & Sons. (Alcohol.)

2. Adult — Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)

Genus 300. *Monophyllus*.

Monophyllus Leach, Trans. Linn. Soc., XIII, 1821, p. 75. Type *Monophyllus redmani* Leach.

938. *Monophyllus cubanus* Miller.

Monophyllus cubanus Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 410. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 678. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 519. Zoöl. Ser.

CUBAN NOSE-LEAF BAT.

1. Adult ♂ Exch. Baracoa, Island of Cuba. U. S. Nat. Mus. W. Palmer. (Alcohol.)

Genus 301. **Phyllonycteris.**

Phyllonycteris Gundl., Monatsb. K. Preuss. Akad. Wiss. Berl., 1860, p. 817. Type *Phyllonycteris poeyi* Gundlach.

939. *Phyllonycteris sancta-cristobalensis* Elliot.

Phyllonycteris sancta-cristobalensis Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 236. (Misprinted *santa-cristobalensis*.)

SAN DOMINGO BAT.

1. Adult — Type. Coll. San Cristobal, San Domingo, W. I. G. K. Cherrie.

940. *Phyllonycteris planifrons* Miller.

Phyllonycteris planifrons Miller, Proc. Biol. Soc. Wash., XII, 1899, p. 34. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 685. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 520. Zoöl. Ser.

FLAT-FOREHEAD BAHAMA BAT.

1. Adult ♀ Exch. Nassau, Bahama Islands. U. S. Nat. Mus. J. E. Benedict. (Alcohol.)

941. *Phyllonycteris poeyi* Gundlach.

Phyllonycteris poeyi Gundl., Monatsb. K. Preuss. Akad. Wiss. Berlin, 1860, p. 817. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 686. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 521. Zoöl. Ser.

POEY'S BAT.

1. Adult ♀ Exch. Guanajay, Island of Cuba. U. S. Nat. Mus. Palmer & Riley. (Alcohol.)

Genus 302. **Brachyphylla.**

Brachyphylla Gray, Proc. Zoöl. Soc., 1834, p. 122. Type *Brachyphylla cavernarum* Gray.

942. *Brachyphylla cavernarum* Gray.

Brachyphylla cavernarum Gray, Proc. Zool. Soc., 1834, p. 123.

Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt.

II, 1904, p. 689, fig. 149. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 521. Zool. Ser.

CAVERN NOSE-LEAF BAT.

1. Adult ♂ Exch. Island of St. Vincent, W. I. U. S. Nat. Mus.

2. Adult ♀ Exch. Island of St. Lucia, W. I. U. S. Nat. Mus.

943. *Brachyphylla nana* Miller.

Brachyphylla nana Miller, Proc. Acad. Nat. Scien. Phil., 1902, p.

409. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub.,

IV, Pt. II, 1904, p. 690, figs. 150, CXXIII. Zool. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI 1905, p. 522. Zool. Ser.



FIG. LXXII. *BRACHYPHYLLA NANA*.
DWARF NOSE-LEAF BAT.

DWARF NOSE-LEAF BAT.

1-5. Adult ♂ P. Santiago, Cuba. S. H. Hamilton.

6-11. Adult ♀ P. Santiago, Cuba. S. H. Hamilton.

12-15. Adult — P. Santiago, Cuba. S. H. Hamilton. (Alcohol.)

Subfamily IV. *Stenodermatinae*.**Genus 303. *Artibeus*.**

Artibeus Leach, Trans. Linn. Soc., XIII, 1821, p. 75. Type *Artibeus jamaicensis* Leach.

Madatæus Leach, Trans. Linn. Soc., XIII, 1821, p. 81.

Pteroderma Gerv., Expéd. du Comte de Castelnau Amér. Sud, Zool., 1855, p. 34.

944. *Artibeus jamaicensis* Leach.

Artibeus jamaicensis Leach, Trans. Linn. Soc., XIII, 1821, p. 75.

Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 693, figs. 151, CXXIV. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 522. Zool. Ser.

Artibeus carpolegus Gosse, Nat. Sojourn in Jamaica, 1851, p. 271, pl. VI, fig. 5.



FIG. LXXIII. *ARTIBEUS JAMAICENSIS*.
JAMAICA BAT.

JAMAICA BAT.

1. Adult ♂ P. San Cristobal, San Domingo. G. K. Cherrie.
- 2-4. Adult ♂ P. Santiago, Cuba. S. H. Hamilton.
- 5-7. Adult ♀ P. Santiago, Cuba. S. H. Hamilton.

945. *Artibeus intermedius* J. A. Allen.

Artibeus carpolegus J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 205. (nec Gosse.)

Artibeus intermedius J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 33. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 694. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 523. Zool. Ser.

INTERMEDIATE BAT.

1. Adult — Coll. San Domingo City, San Domingo. G. K. Cherrie.

946. *Artibeus palmarum* Allen & Chapman.

Artibeus palmarum Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 16.

Artibeus femurvillosum Bangs, Proc. N. Engl. Zool. Club, 1, 1899, p. 73.

TRINIDAD BAT.

1. Adult ♂ Exch. Macuto, Venezuela. U. S. Nat. Mus. Lyon & Robinson. (Alcohol.)

Genus 304. **Uroderma.**

Uroderma Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, p. 588. (Footnote.) Type *Uroderma bilobatum* Peters = *Phyllostoma personatum* Peters.

947. **Uroderma bilobatum** Peters.

Phyllostoma personatum Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, pp. 587, 588. (nec Wagner.)

Uroderma bilobatum Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1866, p. 392.

TWO-LOBED BAT.

- 1-2. Adult ♂ P. Cacaqualito, Colombia, S. A. H. H. Smith.
3. Adult ♀ P. Cacaqualito, Colombia, S. A. H. H. Smith.
- 4-5. Adult ♂ P. Bonda, Colombia, S. A. H. H. Smith.
6. Adult ♀ P. Bonda, Colombia, S. A. H. H. Smith.

948. **Uroderma validum** sp. nov.

VALID BAT.

Type locality. Cayenne, French Guiana, South America.

Genl. Char. Size large; similar in appearance to *Artibeus hercules* Rehn, but with a larger skull and teeth, shorter palate and entirely differently shaped condyle and coronoid process, the latter having no "forward trend" like that of the species cited. The type of *A. hercules* having been immersed for a lengthened period in alcohol, the color of the two forms cannot be compared.

Color. A white streak from either side of the nose-leaf extends to the inside base of each ear; circle around eye, front and top of head and entire upper parts dark seal brown; beneath paler brown, with white hairs intermingled on lower breast and abdomen; nose-leaf and lips, membranes, feet and ears black.

Measurements. Head and body, 88; foot, 17; ear, 22, (taken in the flesh by collector) forearm, 67; tibia, 25. Skull: occipito-nasal length, 27; Hensel, 13; zygomatic width, 19.5; interorbital width, 8; height of braincase above zygomata, 12; palatal length, palatal arch to base of incisors, 12; width of palate between third pre-



FIG. LXXIV. *URODERMA VALIDUM*. VALID BAT.
Enlarged $1\frac{1}{2}$ times. Nose view enlarged $2\frac{1}{2}$ times.

molar and first molar, 8; length of upper molar series, 9; inside length of first upper molar, 4.5; width of crown, 3; inside length of second molar, 4; length of mandible, 21; length of lower molar series, 11; alveolar length of first molar, 3; alveolar length of second molar, 2.5; height from lower border of ramus to top of coronoid process, 9.5; width of condyle at level of alveolar border of ramus, 7.

The skull of *A. hercules* Rehn has been kindly sent to me by Mr. Stone from the Phil. Acad. Collection. The differences in the size of the teeth, so much larger in the two specimens of the new form, the shape of the condyle, and the cranial characters mentioned, are very conspicuous, and seem to mark the Guiana specimens as quite distinct.

1-2. Adult ♂ Type & paratype. Pres. Cayenne, French Guiana, S. A. B. T. Gault. Cherrie & Gault.

Genus 305. **Dermanura.**

Dermanura Gervais, Expéd. Comte de Castelnau Amér. Sud, Zool., Mamm., 1855, p. 36. Type *Dermanura cinereum* Gervais.

949. Dermanura cinereum Gervais.

Dermanura cinereum Gerv., Expéd. Comte de Castelnau Amér. Sud, Zool., Mamm., 1855, p. 36, pl. VIII, fig. 4; pl. IX, figs. 4, 4a; pl. XI, fig. 3. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 699, figs. 154, CXXVII (*D. 4-vittata.*). Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 525. Zool. Ser.

Stenoderma tolteca Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 427, pl. xv, fig. 4.

CINEREOUS BAT.

1. Adult — P. —————? E. Gerrard & Sons. (Alcohol.)

950. Dermanura jucundum Elliot.

Dermanura jucundum Elliot, Proc. Biol. Soc. Wash., XIX, 1906, p. 50.

PRETTY STRIPED BAT.

1. Adult ♂ Type. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 306. **Vampyrops.**

Vampyrops Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, p. 356. Type *Phyllostoma lineatum* E. Geoffroy.

Vampyressa Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 270.

Vampyriscus Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 270.

Vampyrodes Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 270.

951. Vampyrops lineatus (E. Geoffroy).

Phyllostoma lineatum E. Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 180.

Vampyrops lineatus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 702. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 525. Zool. Ser.

WHITE-STRIPED BAT.

1. Adult — P. Annai. E. Gerrard & Sons.

Subfamily V. **Desmodontinæ.**Genus 307. **Desmodon.**

Desmodus (sic) Max., Abbild. Naturg. Bras., 5th Lief., 1824, pl. and text. Type *Desmodus! rufus* Maximilian = *Phyllostoma rotundum* E. Geoffroy.

952. Desmodon rotundum (E. Geoffroy).

Phyllostoma rotundum E. Geoff., Ann. Mus. Hist. Nat. Paris, 1810, p. 181.

Rhinolophus ecaudatus Schinz, Cuv. Thiere., 1, 1821, p. 168.

Desmodus! rufus Max., Beitr. Naturg. Bras., 1826, p. 233.

Edostoma cinerea D'Orbigny, Voy. l'Amér. Mérid., IV, 1847, p. 11, pl. VIII.

Desmodus! d'orbignyi Waterh., Voy. 'Beagle,' Mamm., 1838, p. 1, pls. 5, xxxv, fig. 1.

Desmodus! murinus Wagn., Schreb. Säugth., Suppl., 1, 1847, p. 377.

Desmodus! fuscus Lund, Burm. Thiere. Bras., 1854, p. 57.

Desmodus! rotundus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 718, figs. 162, cxxxvi. Zool. Ser.

Desmodon rotundum Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 530. Zool. Ser.



FIG. LXXV. *DESMODON ROTUNDUM*.
RUFIOUS VAMPIRE BAT.

RUFIOUS VAMPIRE BAT.

1. Adult — P. Venezuela, S. A. Deyrolle Fils.
2. Adult — P. ——— ? E. Gerrard & Sons.
3. Adult ♂ Coll. Reforma, State of Oaxaco, Mexico. Heller & Barber.
- 4-14. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 15-16. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Order XI. **Primates. Primates.**

SUBORDER I. LEMUROIDEA.

Family I. **Lemuridæ. Lemurs.**

Subfamily I. **Indrisinæ.**

Genus 308. **Indris.**

Indri (sic) E. Geoff., Mag. Encyclop., 1, 1796, p. 46. Type *Lemur indri* Gmelin.

Pithelemur Less., Spec. Mamm., 1840, pp. 207-209.

953. Indris indris (Gmelin).

Lemur indri Gmel., Syst. Nat., 1, 1788, p. 42.

Indri! brevicaudata E. Geoff., Mag. Encyclop., 1796, p. 46.

Lichanotus mitratus Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1871, p. 360.

Indris brevicaudatus Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., 1875, p. 336, pls. XI, XII.

BLACK INDRI. *Batokoton*, native name.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 309. **Propithecus.**

Propithecus Bennett, Proc. Zool. Soc., 1832, p. 20. Type *Propithecus diadema* Bennett.

Macromerus A. Smith, S. Afr. Quart. Jour., 2d Ser., II, 1833, p. 49. (nec Schönherr, 1826, Coleop.)

Habrocebus Wagn., Schreb. Säugth., Suppl., 1, 1840, pp. IX, vbis, 257, tab. XLII A.

954. Propithecus diadema Bennett.

Propithecus diadema Bennett, Proc. Zool. Soc., 1832, p. 20. Milne-Edw. & Grandid., Hist. Nat. Madag., 1, 1875, p. 296, pls. I-III.

Macromerus typicus A. Smith, S. Afr. Quart. Jour., 1833, p. 49.

Habrocebus diadema Wagn., Schreb. Säugth., Suppl., 1, 1840, p. 260.

THE PROPITHEQUE.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Propithecus diadema holomelas* (Günther).

- Propithecus holomelas* Günth., Ann. Mag. Nat. Hist., 4th Ser., xvi, 1875, p. 125.

GÜNTHER'S PROPITHEQUE.

1. Adult — P. Madagascar. E. Gerrard & Sons.

955. *Propithecus verreauxi* Grandidier.

- Propithecus verreauxi* Grandid., Rev. Mag. Zool., 1867, pp. 84, 313.
Id. Album Réunion, iv, 1867, p. 152, pls. 1-2. Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., 1, 1875, p. 305, pls. iv, viii.

VERREAUX'S PROPITHEQUE.

- 1-2. Adult — P. Aneronpange District, Madagascar. E. Gerrard & Sons.
3. Juv. — P. Aneronpange District, Madagascar. E. Gerrard & Sons.

a. *Propithecus verreauxi deckeni* (Peters).

- Propithecus deckeni* Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1870, p. 421.
Propithecus candidus Grandid., Compt. Rend., 1871, p. 231.

VON DECKEN'S PROPITHEQUE.

1. Adult — P. Manambolo River District, Madagascar. E. Gerrard & Sons.

b. *Propithecus verreauxi coquereli* (Grandidier).

- Cheirogaleus coquereli* Grandid., Rev. Mag. Zool., 1867, p. 2.
Propithecus damonis Gray, Proc. Zool. Soc., 1872, p. 847, No. 3.
Propithecus damanus Pollen, in Schleg., Mus. Hist. Nat. Pays-Bas, xii, 1876, p. 293.

COQUEREL'S PROPITHEQUE.

1. Adult — P. Aneronpange District, Madagascar. E. Gerrard & Sons.

c. *Propithecus verreauxi coronatus* A. Milne-Edwards.

- Propithecus verreauxi* var. *coronatus* A. Milne-Edw., Rev. Scient., 1871, p. 224.

CROWNED PROPITHEQUE.

1. Adult — P. Meyanga, N. W. Madagascar. E. Gerrard & Sons.

Genus 310. ***Lichanotus.**

Lichanotus Illig., Prodr. Syst. Mamm. et Avium, 1811, p. 72.

Type *Lemur laniger* Gmelin.

Avahi! Jourd., L'Institut., 11, 1834, p. 231.

Microhynchus Jourd., Thèse inaug. Facul. Scien. Grenoble, 1834. (nec Megerle, 1823, Coleop.)

956. Lichanotus laniger (Gmelin).

Lemur laniger Gmel., Syst. Nat., 1, 1788, p. 44.

Indris longicaudatus Geoff., Ann. Mus. Hist. Nat. Paris, xix, 1812, p. 158.

Microhynchus laniger Jourd., Thèse inaug. Facul. Scien. Grenoble, 1834. Mivart, Proc. Zool. Soc., 1864, p. 638.

Indris laniger A. Smith, S. Afr. Quart. Jour., 11, 1835, p. 27.

Haplorhina lanatus Wagn., Schreb. Säugth., Suppl., 1, 1840, p. 258.

Avahis laniger I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 69.

WOOLLY LEMUR, AVAHIS.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Subfamily II. **Lemurinae. Lemurs.**

Genus 311. **Lemur.**

Lemur Linn., Syst. Nat., 1, 1758, p. 29; 1, 1766, p. 44. Type *Lemur catta* Linnæus.

957. Lemur varius I. Geoffroy.

Lemur macaco Schreb., Säugth., 1, 1775, p. 142, pl. XL B. (nec Linn.)

Lemur varius I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 71.

Varecia varia Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 70.

**Indri*! E. Geoffroy, 1796, & *Lichanotus* Illiger, 1811, contained the same species, *indris* and *laniger*, but which however were not co-generic. *Indris* was taken as the type of Geoffroy's genus *Indri*! thus leaving only *laniger* for Illiger's genus *Lichanotus*, and therefore its type, the genus antedating *Avahi* Jourdan, usually employed for *laniger*, by 23 years. Also, from another point of view, following the principle that the first specimen cited by an author after a new genus, becomes its type, the same result is attained, *indris* called *brevicauda* becomes the type of *Indri*! and *laniger* of *Lichanotus*, reducing *Avahi* to the rank of a synonym.

RUFFED LEMUR.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult — P. Madagascar. E. Gerrard & Sons.

958. *Lemur mongos* Linnæus.

- Lemur mongos* Linn., Syst. Nat., 1, 1766, p. 44.
Lemur albigianus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 160.
Lemur collaris E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 161.
Lemur anjuanensis Peters, Reise nach Mossamb., Zool., 1, 1852, p. 21.
Lemur nigrijrons Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pls. cxxxv, XLIII.

MUNGOOSE LEMUR.

1. Adult — P. Madagascar. E. Gerrard & Sons.
- a. *Lemur mongos albifrons* (E. Geoffroy).
Lemur albifrons E. Geoff., Ann. Mus. Hist. Nat. Paris, 1812, p. 160.
Prosimia albifrons Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 73.

WHITE-FRONTED LEMUR.

1. Adult — P. Madagascar. E. Gerrard & Sons.
- b. *Lemur mongos rufifrons* (Bennett).
Lemur rufifrons Bennett, Proc. Zool. Soc., 1833, p. 106.
Prosimia rufifrons Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 74.
Lemur mongos var. *rufifrons* Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pls. cxxxviii, cxxxix, cXLIV.

RED-FRONTED LEMUR.

- 1-4. Adult — P. S. W. Madagascar. E. Gerrard & Sons.
959. *Lemur melanocephala* (Gray).
Prosimia melanocephala Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 73.

BLACK-HEADED LEMUR.

- 1-3. Adult — P. Madagascar. E. Gerrard & Sons.
960. *Lemur rubriventer* I. Geoffroy.
Lemur rubriventer I. Geoff., Compt. Rend., xxxi, 1850, p. 876.
Lemur flaviventer I. Geoff., Compt. Rend., xxxi, 1850, p. 876.
Prosimia rufipes J. E. Gray, Ann. Mag. Nat. Hist., 4th Ser., VII, 1871, p. 339.

RED-BELLIED LEMUR.

1. Adult — P. Madagascar. E. Gerrard & Sons.
2. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

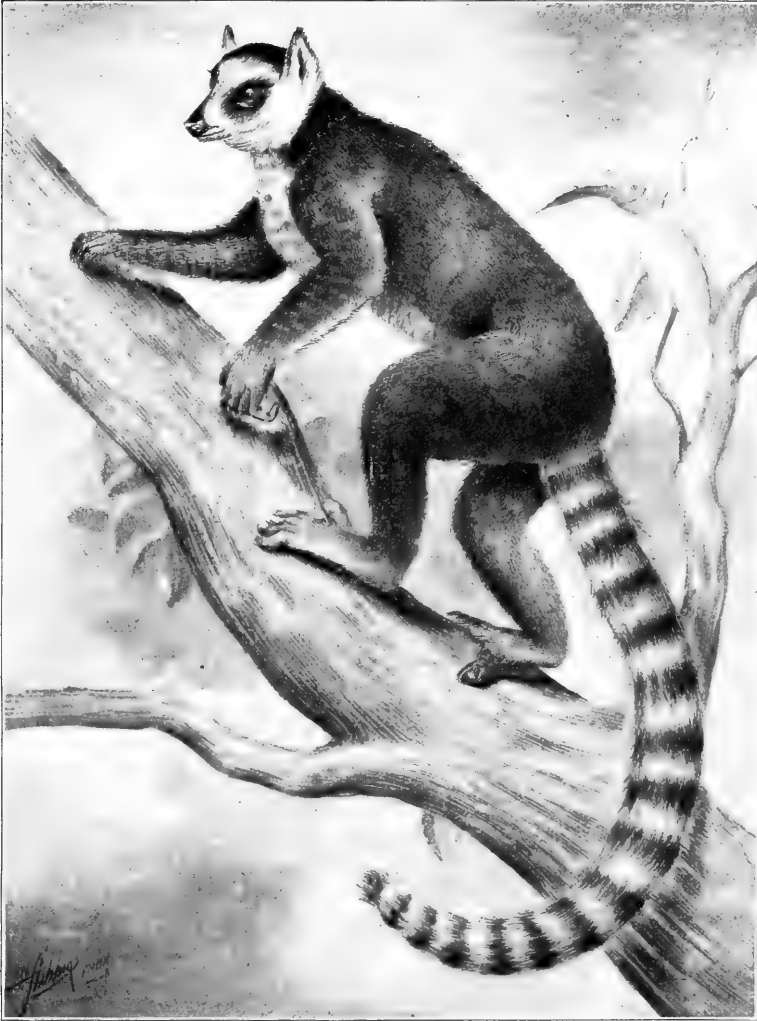


FIG. LXXVI. LEMUR CATTÀ. RING-TAILED LEMUR.

961. *Lemur catta* Linnæus.

Lemur catta Linn., Syst. Nat., I, 1758, p. 30; I, 1766, p. 45. Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pls. CLXVII-CLXXII.

RING-TAILED LEMUR.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

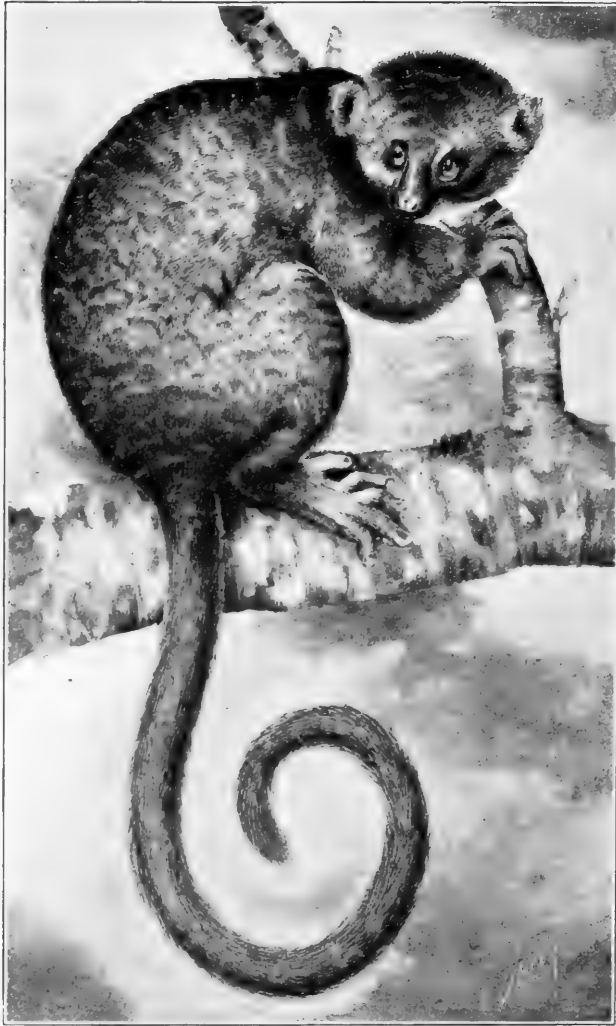


FIG. LXXVII. HAPALOLEMUR GRISEUS. GRAY LEMUR.

Genus 312. **Hapalolemur.**

Hapalemur (sic) I. Geoff., L'Institut, 19me Ann., No. 929, 1851, p. 341, footnote. Type "*le Maki gris et des auteurs*" = *Lemur griseus* E. Geoffroy.

Lepilemur! I. Geoff., L'Institut, 19me Ann., No. 929, 1851, p. 341, footnote.

Prolemur Gray, Proc. Zool. Soc., 1870, p. 828, pl. LI, figs. 1-4.

962. Hapalolemur griseus (E. Geoffroy).

Lemur griseus E. Geoff., Mag. Encyclop., 1, 1796, p. 46.

Cheirogaleus griseus Van d. Hoef., Tijd. Nat. Gesch. en Physiol., 1844, p. 38, pl. 1, fig. 1.

Hapalemur! *griseus* I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 74. Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pl. CXXII D, fig. 2.

Hapalolemur griseus Sclat., Proc. Zool. Soc., 1863, p. 161.

Hapalemur! *simus* Gray, Proc. Zool. Soc., 1870, p. 828, pl. 52.

GRAY LEMUR.

1. Juv. — P. Madagascar. C. I. Forsyth-Major.

2. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 313. **Lepidolemur.**

Lepilemur (sic) I. Geoff., Cat. Méth. Mamm. Mus. Hist. Nat. Paris, 1e part., 1851, p. 75. Type *Lepilemur!* *mustelinus* I. Geoffroy.

Lepidolemur Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1874, p. 690.

963. Lepidolemur mustelinus I. Geoffroy.

Lepilemur! *mustelinus* I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 76.

Lepilemur! *dorsalis* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 135.

WEASEL LEMUR.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

964. Lepidolemur microdon Forsyth-Major.

Lepidolemur microdon F.-Major, in Forbes, Handb. Primates 1, 1894, p. 88.

SMALL-TOOTHED LEMUR.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Subfamily III. **Galaginæ.**Genus 314. **Chirogaleus.**

- Chirogaleus!** E. Geoff., Ann. Mus. Hist. Nat. Paris, xix, 1812, p. 172, pl. 10. Type *Chirogaleus! major* Geoffroy.
Myspithecus F. Cuv., "Hist. Nat. Mamm., éd. 4, 1833."

965. Chirogaleus melanotis Forsyth-Major.

Chirogale melanotis F.-Major, Novit. Zool., 1; 1894, p. 25, pl. 11, fig. 10.

Chirogaleus! typicus Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, pp. 78, 133. *Id.* Proc. Zool. Soc., 1872, p. 855, pl. LXXI.

BLACK-EARED LEMUR.

1. Juv. ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 315. **Microcebus.**

- Microcebus** E. Geoff., Cours Hist. Nat. Mamm., 11me Leçon, 1834, p. 24. Type *Lemur pusillus* E. Geoffroy.

Mirza Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 131.

Phaner Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 132.

Azema Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 134.

Murilemur Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 135.

966. Microcebus murinus (Miller).

Lemur murinus Miller, Var Subj. Nat. Hist., 1777, pl. XIII.

Microcebus murinus Waterh. Cat. Mus. Zool. Soc., 1838, p. 12, No. 90.

Chirogaleus! smithii Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257.

Galago minor Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257.

Lepilemur! murinus Gray, Proc. Zool. Soc., 1863, p. 143.

Murilemur murinus Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 135.

MURINE MOUSE-LEMUR.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Genus 316. **Galago.**

Galago E. Geoff., Mag. Encyclop., 2me Ann., I, 1796, p. 49, pl. 1.

Type *Galago senegalensis* Geoffroy = *Lemur galago* Schreber.

Otolincus Illig., Prodr. Syst. Mamm. et Av., 1811, p. 74.

Galagoides A. Smith, S. Afr. Quart. Journ., 2d Ser., II, 1833, No. 1, p. 32.

Hemigalago Dahlbom, Zool. Stud., I, Tredje Häftet, 1857, p. 224, Tab. x.

Otolemur Coquerel, Rev. Mag. Zool., 2me Sér., XI, 1859, p. 458, pls. 17, 18, fig. 1.

Otogale Gray, Proc. Zoöl. Soc., 1863, p. 139, figs. 1-2.

Callotus Gray, Proc. Zoöl. Soc., 1863, p. 145.

Subgenus A. *Otolemur*,**967. Galago galago** (Schreber).

Lemur galago Schreb., Säugth., I, 1775, pl. 38 B.

Galago senegalensis E. Geoff., Mag. Encyclop., I, 1796, p. 49.

Galagoides senegalensis A. Smith, S. Afr. Quart. Jour., II, 1833, p. 32.

GALAGO.

1. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus B. *Galagoides*.**968. Galago demidoffi** Fischer.

Galago demidoffi Fisch., Act. Soc. Nat. Mosc., I, 1806, p. 24, fig 1, juv.

DEMIDOFF'S GALAGO.

1. Adult — P. Batuga, Cameroons, West Africa. C. W. McCleary.

Subfamily IV. **Nycticebinæ.**Genus 317. **Nycticebus.**

Nycticebus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 163. Type *Nycticebus bengalensis* E. Geoffroy = *Tardigradus coucang* Boddaert.

? *Bradicebus* Cuv. & Geoff., Mag. Encyclop., No. VI, 1795. (nec descript.)

969. Nycticebus coucang (Boddaert).

Tardigradus coucang Bodd., Elench. Anim., I, 1783, p. 67.

Nycticebus bengalensis E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 164.

Nycticebus cinereus A. Milne-Edw., Nouv. Arch. Mus. Bull., III, 1867, p. 11.



FIG. LXXVIII. NYCTICEBUS COUCANG. SLOW LORIS.

SLOW LORIS.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Borneo. Menage Scient. Exped. Bourns & Worcester.

Family II. **Tarsiidae.**Genue 318. **Tarsius.**

Tarsius Storr, Prodr. Meth. Mamm., 1780, p. 33, Tab. A. Type *Lemur tarsius* Erxleben.

Macrotarsus Link, Beytr. Naturg., I, Pt. II, 1795, pp. 51, 65-66.

Rabienus Gray, Lond. Med. Repos., xv, No. 88, 1821, p. 299.

Cephalopachus Swains., Nat. Hist. & Class. Quad., 1835, p. 352.

Hypsicebus Less., Spec. Mamm., 1840, pp. 207, 253-254.

970. *Tarsius tarsius* (Erxleben).

Lemur tarsius Erxl., Syst. Reg. Anim., 1777, p. 71.

Lemur spectrum Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 275,
(note).

Macrotarsus buffoni Link, Beytr. Naturg., I, Pt. II, 1795, p. 61.

WOOLLY TARSIER.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester,
N. Y.



FIG. LXXIX. *TARSIVS TARSIIVS*. WOOLLY TARSIER.

Family III. **Daubentoniidæ.**Genus 319. **Daubentonia.**

Daubentonia E. Geoff., Décad. Philos. et Litt., 1795, p. 195.

Type *Sciurus madagascariensis* Gmelin.

Cheiromys (sic) G. Cuv., Leçons Anat. Comp., I, 1800.



FIG. LXXX. DAUBENTONIA MADAGASCARIENSIS. AYE-AYE.

971. Daubentonia madagascariensis (Gmelin).

Sciurus madagascariensis Gmel., Syst. Nat., I, 1788, p. 152, No. 29.

Daubentonia madagascariensis E. Geoff., Décad. Philos. et Litt.,
IV, 1795, p. 195.

Cheiromys! madagascariensis Geoff., Cat. Mamm. Mus. Hist. Nat.
Paris, 1803, p. 181.

AYE-AYE.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

SUBORDER II. ANTHROPOIDEA.

Family IV. **Callitrichidæ. Marmosets.**

Genus 320. **Callithrix.**

Callithrix Erxl., Syst. Regn. Anim., 1777, p. 55. Type *Simia jacchus* Linnæus.

Sagoinus Kerr, Anim. Kingd., Mamm., 1, 1792, p. 80.

Sagouin! Lacépède., Tabl. Mamm., 1799, p. 4.

Hapale Illig., Prodr. Syst. Mamm. et Av., 1811, p. 71.

Jacchus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 118.

972. Callithrix jacchus (Linnæus).

Simia jacchus Linn., Syst. Nat., 1, 1758, p. 27; 1, 1766, p. 40.

Jacchus penicillatus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 119.

Jacchus vulgaris Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 63.

BLACK-EARED MARMOSET.

1-6. Group — P. S. E. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

973. Callithrix leucopus (Günther).

Hapale leucopus Günth., Proc. Zoöl. Soc., 1876, p. 743, pl. LXXII.

WHITE-FOOTED MARMOSET.

1. Adult — P. Meddellen, Colombia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 321. **Ædipomidas.**

Ædipomidas Reichenb., Vollst. Naturg. Affen, 1862, p. 5, pl. II, figs. 18-20. Type *Simia ædipus* Linnæus.

Midas Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 120. (nec Latreille, 1796, Diptera.)

Ædipus Less., Spec. Mamm., 1840, pp. 184, 197-200. (nec Tschudi, 1838, Amphib.)

974. Ædipomidas illigeri (Pucheran).

Midas illigeri Pucher., Rev. Mag. Zool., 1845, p. 336. Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 67.

Midas devillei Sclat., Proc. Zool. Soc., 1871, p. 220, pl. XIII. (nec Geoff.)

ILLIGER'S MARMOSET.

1. Adult — P. Ecuador. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family V. Cebidæ. Prehensile-tailed Monkeys.**Subfamily I. Alouattinæ.****Genus 322. Alouatta. Howling Monkeys.**

Alouatta Lacépède, Tabl. Div. Sous-div. Ordres et Genres Mamm., 1799, p. 4. Type *Simia belzebul* Linnæus.

Mycetes Illig., Prodr. Syst. Mamm. et Av., 1811, p. 70.

975. A'ouatta ursina (Humboldt & Bonpland).

Simia ursina Humb. & Bonp., Obs. Zool., 1, 1811, pl. xxx.

Stentor fuscus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 108.

Mycetes seniculus Wagn., Schreb. Säugth., Suppl., 1, 1840, p. 179.

Mycetes bicolor Gray, Ann. Mag. Nat. Hist., XVI, 1845, p. 214.

THE ARAQUATO.

1-5. Adult — P. La Plata. Ward's Nat. Scien. Establ., Rochester, N. Y. Mounted group.

976. Alouatta seniculus (Linnæus).

Simia senicula Linn., Syst. Nat., 1, 1766, p. 37.

Simia ursina Humb. & Bonp., Obs. Zool., 1, 1811, p. 354, desc. (nec pl.)

Mycetes stramineus Spix, Sim. et Vespert. Bras., 1823, p. 45, pl. 31.

Mycetes chrysurus Geoff., Mém. Mus. Hist. Nat. Paris, XVII, 1829, p. 66.

Mycetes auratus Gray, Ann. Mag. Nat. Hist., XVI, 1845, p. 219.

Mycetes laniger Gray, Ann. Mag. Nat. Hist., XVI, 1845, p. 220.

RED HOWLER.

1-3. Adult — P. Bonda, Colombia, South America. H. H. Smith.

977. *Alouatta palliata* (Gray).

Mycetes palliatus Gray, Proc. Zool. Soc., 1848, p. 138, pl. vi.

Alouatta palliata Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 726, fig. cxxxviii. Zool. Ser.

Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 533. Zool. Ser.

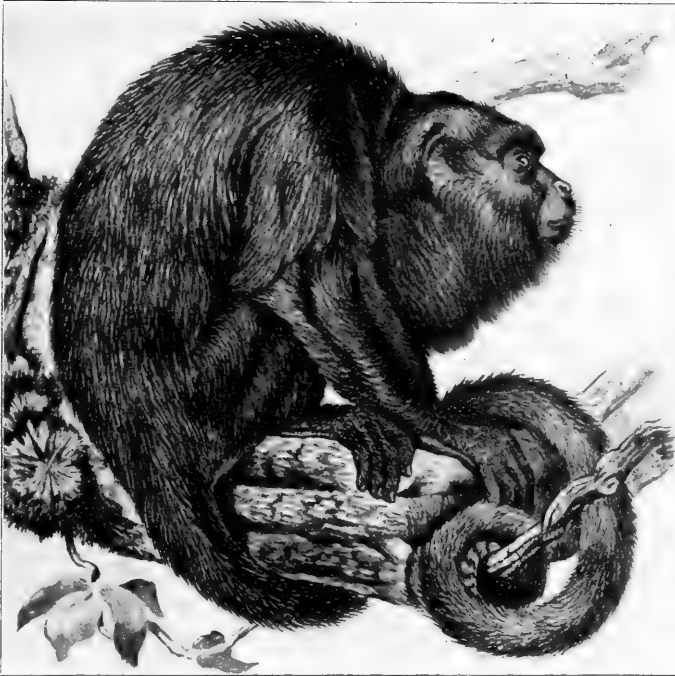


FIG. LXXXI. *ALOUATTA PALLIATA*. MANTLED HOWLER.

MANTLED HOWLER.

1. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

2-6. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

7. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

a. *Alouatta palliata mexicana* Merriam.

Alouatta palliata mexicana Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 67. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 727. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 533. Zool. Ser.

MEXICAN HOWLER.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 2-5. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
6. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

b. Alouatta palliata coibensis Thomas.

Alouatta palliata coibensis Thos., Novitat. Zool., ix, 1902, p. 135.
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv,
 Pt. II, 1904, p. 727. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.
 Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 533. Zoöl. Ser.

COIBA ISLAND HOWLER.

1. Adult ♀ Topotype. P. Coiba Island, Panama. J. H. Batty.

Subfamily II. **Pitheciinæ.**Genus 323. **Pithecia.**

Pithecia Desm., Nouv. Dict. Hist. Nat., xxiv, 1804, p. 8. Type

Simia pithecia Linnæus.

Chiropotes Less., Spec. Mamm., 1840, p. 178.

978. **Pithecia pithecia** (Linnæus).

Simia pithecia Linn., Syst. Nat., i, 1766, p. 40.

Simia leucocephala Audeb., Hist. Nat. Singes, Fam. vi, Sect. i,
 1797, p. 9, fig. 2.

Pithecia leucocephala Geoff., Ann. Mus. Hist. Nat. Paris, xix, 1812,
 p. 117.

Pithecia capillamentosa Spix, Sim. et Vespert. Bras., 1823, p. 16,
 pl. xi.

Pithecia nocturna Schleg., Mus. Pays-B., xii, 1876, p. 217. (Part.)

BLACK YARKEE.

1. Adult—P. Guiana. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily III. **Aotinæ. Squirrel Monkeys.**Genus 324. **Callicebus.**

Callicebus Thos., Ann. Mag. Nat. Hist., 7th Ser., xii, 1903, p. 457.

Type *Callithrix personatus* Geoffroy.



FIG. LXXXII. PITHECIA PITHECIA. BLACK YARKEE.

Callithrix E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 112.
(nec Erxleben, 1777.)

979. *Callicebus cuprea* (Spix).

Callithrix cuprea Spix, Sim. et Vespert. Bras., 1823, p. 23,
pl. xvii.

Callithrix discolor I. Geoff., Compt. Rend. Acad. Scien., xxvii,
1848, p. 498.

COPPER-COLORED MONKEY.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. LXXXIII. SAIMIRI CÆRSTEDI. CÆRSTED'S TITI MONKEY.

Genus 325. **Saimiri.**

Saimiri Voigt, Cuvier's *Thierreich*, I, 1831, p. 95. Type *Simia sciurea* Linnæus.

Chrysothrix Kaup, *Das Thierr.*, I, 1835, p. 50, fig.

Pitheciurus Less., *Spec. Mamm.*, 1840, pp. 116, 157-160.

Saimiris Geoff., *Compt. Rend. Paris*, xvi, 1843, p. 1151.

980. **Saimiri sciurea** (Linnæus).

Simia sciurea Linn., *Syst. Nat.*, I, 1758, p. 19; I, 1766, p. 43.

Saimiri sciureus I. Geoff., *Leçon Mamm.*, 1835, p. 19.

Chrysothrix sciurea Kaup, *Das Thierr.*, I, 1835, p. 50.

TEETEE.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

981. Saimiri ærstedii (Reinhardt).

Chrysothrix sciurea Sclat., Nat. Hist. Rev., 1861, p. 510. (nec Linn.)

Chrysothrix ærstedii Reinh., Vidensk. Medd. Nat. For. K. öbenh., 1872, p. 157, pl. III.

Saimiris entomophaga Sclat., Proc. Zool. Soc., 1872, p. 3. (nec d'Orbigny.)

Saimiri ærstedii Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 731, figs. 166, cXL. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 534. Zool. Ser.

ÆRSTED'S TITI MONKEY.

1-4. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

5-6. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Subfamily IV. **Cebinae.**Genus 326. **Ateles. Spider Monkeys.**

Ateles E. Geoff., Ann. Mus. Hist. Nat. Paris, VII, 1806, p. 262. Type *Simia paniscus* Linnæus.

Atelocheirus E. Geoff., Ann. Mus. Hist. Nat. Paris, VII, 1806, p. 272

Paniscus Rafin., Analyse de la Nature, 1815, p. 53. (nec Schrank, 1802, Hymenopt.)

982. Ateles vellerosus Gray.

Ateles vellerosus Gray, Proc. Zool. Soc., 1865, p. 733. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 733, fig. cXLI, pl. LXVIII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 534. Zool. Ser.

Ateles fuliginosus Schleg., Mus. Pays-Bas, III, 1876, p. 179. (nec Kuhl.)

Ateles pan Schleg., Mus. Pays-Bas, III, 1876, p. 180.

MEXICAN SPIDER MONKEY.

1. Adult — P. ———? Ward's Nat. Scien. Establ., Rochester, N. Y.

- 2-5. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

6. Juv. ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

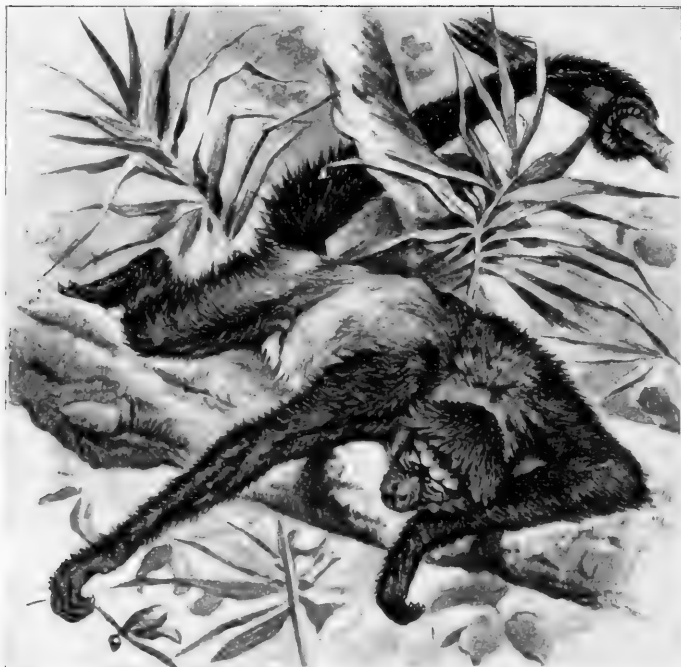


FIG. LXXXIV. ATELES VELLEROSUS. MEXICAN SPIDER MONKEY.

7. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
8. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 327. **Cebus.**

Cebus Erxl., Syst. Regn. Anim., Mamm., 1777, pp. 44-54. Type *Simia capucina* Linnæus.

Calyptrocebus Reichenb., Vollst. Naturg. Affen, 1862, p. 55, pls. VI-VII, figs.

Pseudocebus Reichenb., Vollst. Naturg. Affen, 1862, p. 55, pls. VI-VII, figs. 83, 84, 89, 90, 108.

Otocebus Reichenb., Vollst. Naturg. Affen, 1862, p. 55, pls. VII-VIII, figs.

983. **Cebus flavus** E. Geoffroy.

Cebus flavus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 112.

Cebus pallidus Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats
Brit. Mus., 1870, p. 49, No. 3.

PALE CAPUCHIN.

- 1-3. Adult ♂ P. Caicara, Venezuela. G. K. Cherrie.
4. Juv. ♂ P. Caicara, Venezuela. G. K. Cherrie.
5. Adult ♀ P. Caicara, Venezuela. G. K. Cherrie.
6. Adult ♀ P. Alta Gracia, Rio Oronoco, Venezuela. G. K. Cherrie.

984. *Cebus capucinus* (Linnæus).

Simia capucina Linn., Syst. Nat., 1, 1758, p. 19; 1, 1766, p. 42.

Cebus nigrivittatus Wagn., Abhandl. Akad. München, v, 1848,
p. 420.

Cebus olivaceus Schomb., Reis. Brit. Guiana, 11, 1848, p. 246.

Cebus castaneus I. Geoff., Cat. Prim., 1851, p. 46.

Cebus versicolor Puch., Rev. Mag. Zool., 1857, p. 346.

Cebus annallatus Gray, Proc. Zool. Soc., 1865, p. 827, fig. 3.

CAPUCHIN.

- 1-3. Adult — P. Bonda, Colombia, South America. H. H. Smith.
4. Adult ♂ Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.

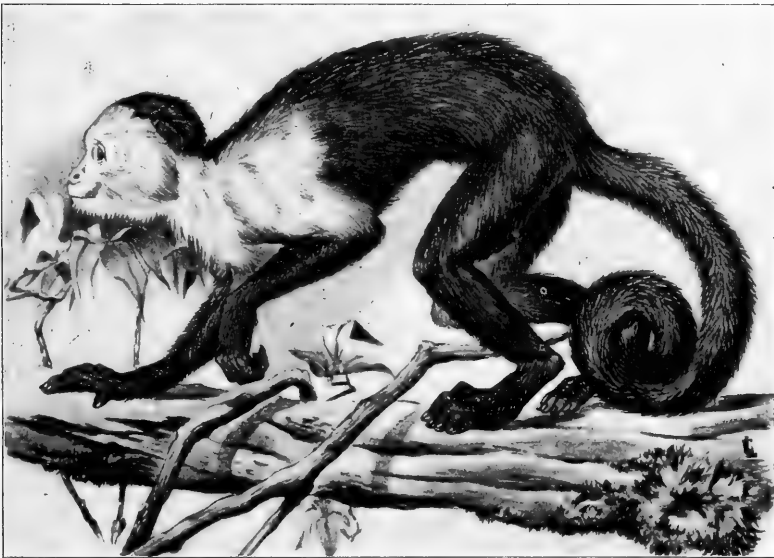


FIG. LXXXV. *CEBUS HYPOLEUCUS*. WHITE-THROATED CAPUCHIN.

985. *Cebus hypoleucus* (Humboldt).

Simia hypoleuca Humb., Recueil Obs. Zool. Anat. Comp., 1, 1811, p. 337.

Cebus hypoleucus Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 736, figs. 167, CXLII. Zool. Ser.
Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 536. Zool. Ser.

WHITE-THROATED CAPUCHIN. *Mono carablanca*.

1. Adult ♂ Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.
2. Adult — Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.
- 3-4. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 5-8. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Family VI. **Cercopithecidae.**Subfamily I. **Cercopithecinae.**Genus 328. **Papio.**

Papio Erxl., Syst. Regn. Anim., 1777, p. 15. Type *Papio sphinx* Erxleben.

Cynocephalus Cuv. & Geoff., Mag. Encyclop., III, 1795, p. 462.
 (nec Boddaert, 1768, Insectiv.)

Mandrill Voigt, Cuvier's Thierreich, 1, 1831, p. 88.

Mormon Wagn., Schreb. Säugth., Suppl., 1, 1839, p. 164.

Hamadryas Less., Spec. Mamm., 1840, p. 107. (nec Hübner, 1806, Coleop.)

Choiropithecus Reich., Vollst. Naturg. Affen, 1862, p. 151.

Chæropithecus Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, pp. 5, 35.

986. *Papio sphinx* (Linnæus).

Simia sphinx Linn., Syst. Nat., 1, 1758, p. 25; 1, 1766, p. 35.

Cynocephalus papio Desm., Mamm., 1820, p. 69.

Cynocephalus choras Ogilby, Proc. Zool. Soc., 1843, p. 12.

Papio rubescens Temm., Esquis. Zool., 1853, p. 39.

Cynocephalus sphinx Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 35.

THE PAPION.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

987. Papio maimon (Linnæus).

Simia maimon Linn., Syst. Nat., 1, 1766, p. 35.

Papio mormon E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812,
p. 104, No. 7.

Mormon maimon Gray, Cat. Monkeys, Lemurs & Fruit-eating
Bats Brit. Mus., 1870, p. 36.



FIG. LXXXVI. PAPIO MAIMON. MANDRILL.

MANDRILL.

1. Adult ♂ P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

988. *Papio leucophæus* (F. Cuvier).

Cynocephalus leucophæus F. Cuv., Ann. Mus. Hist. Nat. Paris, ix, 1807, p. 477, tab. 37.

Chæropithecus leucophæus Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 35.



FIG. LXXXVII. PAPIO LEUCOPHÆUS. THE DRILL.

THE DRILL.

1. Adult — Pres. West Africa. C. P. Galetti.

989. Papio hamadryas (Linnæus).

Simia hamadryas Linn., Syst. Nat., I, 1758, p. 27; I, 1766, p. 36.

Cynocephalus wagleri Agass., Isis, 1828, p. 861.

Cynocephalus hamadryas F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833, p. 129, pl. 46.

Hamadryas choeropithecus Less., Spec. Mamm., 1840, pp. 107-111.

Hamadryas ægyptiaca Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 34.



FIG. LXXXVIII. PAPIO HAMADRYAS. THE TARTARIN.

THE TARTARIN.

1. Adult ♂ Coll. Sheik Pass, Golis Range, Somaliland, East Africa. D. G. Elliot.

990. *Papio porcarius* (Brünnich).

Simia porcaria Brunn., Dyr. Hist. Univ. Nat.-Theat., 1782, p. 13.

Bodd., Naturf., xxii, 1787, p. 17, figs. 1, 2.

Simia sphingiola Herm., Obs. Zool., 1, 1804, p. 2.

Cynocephalus porcarius F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833, p. 132, pl. 47.

THE CHACMA.

1. Adult — P. S. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

991. *Papio doguera* (Pucheran & Schimper).

Cynocephalus babouin Rüpp., Neue Wirbelth., 1, 1835-40, p. 7. (Part.)

Cynocephalus doguera Puch. & Schimp., Rev. & Mag. Zool., 1856, p. 96; 1857, p. 57.

Cynocephalus porcarius Fitzing. & Heugl., Syst. Uebers., 1866, p. 6.

ABYSSINIAN CHACMA.

1. Adult ♂ P. Managasha, Abyssinia. P. H. G. Powell-Cotton.

Genus 329. *Theropithecus*.

Theropithecus I. Geoff., Archiv. Mus. Hist. Nat. Paris, 11, 1843, p. 576. Type *Macacus gelada* Rüppell.

Gelada Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xvii, 9.

992. *Theropithecus obscurus* Heuglin.

Theropithecus obscurus Heugl., Nov. Act. Acad. Cæs. Leop.-Carol., 1863, p. 30.

DARK GELADA.

1. Adult ♂ P. Managasha, Abyssinia. P. H. G. Powell-Cotton.

Genus 330. *Macacus*.

Macaca (sic) Lacépèd., Tabl. Mamm., 1799, p. 4. Type *Simia inuus* Linnæus.

Inuus! Geoff., Ann. Mus. Hist. Nat. Paris, xix, 1812, p. 100.

Magus Less., Man. Mamm., 1827, p. 43.

Nemestrinus Reichenb., Vollst. Naturg. Affen, 1862, p. 139, pl. xxiv, figs. 349-353, 359-363. (nec Latreille, 1802, Diptera.)

993. *Macacus lasiotis* Gray.

Macacus lasiotis Gray, Proc. Zool. Soc., 1868, p. 61, pl. vi.

HAIRY-EARED MACACQUE.

1. Adult — P. Szechuen, China. Ward's Nat. Scien. Establ., Rochester, N. Y.

994. *Macacus fascicularis* (Raffles).

Simia cynomolgus Schreb., Säugth., 1, 1775, p. 91, pl. XIII. (nec Linn.)

Simia fascicularis Raffles, Trans. Linn. Soc., XIII, 1821, p. 246.

Macacus aureus I. Geoff., Voy. Bélang., Zool., 1834, p. 58.

Macacus philippinensis I. Geoff., Cat. Primates, 1851, p. 29.

Inuus! palpebrosus Wagn., Schreb. Säugth., Suppl., v., 1855, p. 54.

Macacus fur Slack, Proc. Acad. Nat. Scien. Phil., 1867, p. 36, pl.

Macacus cristatus Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 30.

Macacus assamensis Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 31.

THE KRA.

1. Adult — P. Panay, Philippines. Menage Scientific Exped. Bourns & Worcester.

995. *Macacus nemestrinus* (Linnæus).

Simia nemestrinus Linn., Syst. Nat., 1, 1766, p. 35.

Inuus! nemestrinus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 101.

Simia carpolegos Raffles, Trans. Linn. Soc., XIII, 1821, p. 243.

Macacus nemestrinus F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833, p. 95, pl. 33; p. 99, pl. 34.

THE BRUH.

1. Adult — Pres. Sumatra. C. P. Galetti.

996. *Macacus rhesus* (Audebert).

Simia rhesus Audeb., Hist. Nat. Singes, 2e Fam., 1797, p. 5, pl. 1.

Simia erythræa Schreb., Shaw's Gen. Zool., 1, 1800, p. 33.

Macacus (Pithex) oinops Hodgs., Jour. Asiat. Soc. Beng., 1840, IX, p. 1212.

Macacus rhesus Anders., Anat. & Zool. Res., 1878, p. 55.

BENGAL MONKEY.

- 1-2. Adult — Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.

Genus 331. **Cercocebus.**

Cercocebus Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 97.
Type *Cercocebus fuliginosus* E. Geoffroy.

997. Cercocebus fuliginosus Geoffroy.

Simia æthiops Audeb., Hist. Nat. Singes, 4me Fam., 1797, pl. 9.
(nec Linn.)

Cercocebus fuliginosus E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX,
1812, p. 97.

Cercopithecus fuliginosus F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833,
p. 73, pl. 25.

SOOTY MANGABEY.

1. Adult ♀ Exch. Central Park Menagerie. Am. Mus. Nat.
Hist. N. Y.

2. Adult ♀ Pres. Barnum & Bailey Menagerie.

Genus 332. **Cercopithecus.**

Cercopithecus Gronov., Zooph., I, 1763, p. 5. Bränn., Zool.
Fund., 1772, p. 34. Erxl., Syst. Reg. Anim., 1777, p. 22.
Type *Cercopithecus mona* Schreber.

Cebus Rafin., Analyse de la Nature, 1815, p. 53. (nec. Erxl.)

Monichus Oken, Lehrb. Naturg., 3 ter Theil, Zool., 2te Abth., 1816,
pp. XI, 1208-1211.

Aethiops Martin, Gen. Introd. Nat. Hist. Mamm. Anim., 1841, p. 506.

Miopithecus I. Geoff., Compt. Rend. Paris, xv, 1842, p. 720.

Diadema Reich., Vollst. Naturg. Affen, 1862, p. 107, pls. XVIII,
XIX, figs. 262-270. (nec. Schum., 1817, Crust.)

Mona Reich., Vollst. Naturg. Affen, 1862, p. 109, pls. XIX-XX,
figs. 271-282.

Diana Trouess., Rev. Mag. Zool., 3me Sér., VI, 1878, p. 124. (nec
Risso, 1826, Pisces.)

Rhinostictus Trouess., Cat. Mamm. Viv. et Foss., I, 1897, p. 17.

Erythrocebus Trouess., Cat. Mamm. Viv. et Foss., I, 1897, p. 19.

Otopithecus Trouess., Cat. Mamm. Viv. et Foss., I, 1897, p. 22.

Pogonocebus Trouess., Cat. Mamm. Viv. et Foss., Suppl., Pt. I,
1904, p. 14.

Subgenus A. **Cercopithecus.****998. Cercopithecus callitrichus** I. Geoffroy.

Le Callitriche F. Cuv., Nat. Hist. Mamm., I, 1824, pl. XXI.

Cercopithecus callitrichus I. Geoff., Cat. Primates, 1851, p. 23.
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.
 Pub., VI, 1905, p. 536. Zoöl. Ser.

GREEN MONKEY.

1. Adult ♀ Exch. Central Park Menagerie, N. Y. Am. Mus. Nat. Hist. N. Y.
2. Juv. ♀ Exch. Central Park Menagerie, N. Y. Am. Mus. Nat. Hist. N. Y.

Subgenus B. *Rhinostictus*.999. *Cercopithecus cephus* (Linnæus).

Simia cephus Linn., Syst. Nat., I, 1758, p. 17; I, 1766, p. 39.

Moustac F. Cuv., Hist. Nat. Mamm., I, 1821, tab. 19.

Cercopithecus cephus Wagn., Schreb. Säugth., Suppl., v, 1855,
 p. 49. Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit.
 Mus., 1870, p. 20.

MOUSTACHE MONKEY.

1. Adult ♂ P. Benito River, West Africa. G. L. Bates.

1000. *Cercopithecus nictitans* (Linnæus).

Simia nictitans Linn., Syst. Nat., I, 1766, p. 40.

Cercopithecus nictitans Erxl., Syst. Regn. Anim., 1777, p. 35.

Lasiopyga nictitans Illig., Prodr. Syst. Mamm. et Av., 1811, p. 68.

Cercopithecus martini Waterh., Proc. Zoöl. Soc., 1838, p. 58; 1841,
 p. 71.

THE HOCHUR.

1. Adult ♂ P. Benito River, West Africa. G. L. Bates.

Subgenus C. *Monichus*.1001. *Cercopithecus neglectus* Schlegel.

Cercopithecus neglectus Schleg., Mus. Pays-Bas, XII, 1876, p. 70.

Cercopithecus brazzae A. Milne-Edw., Rev. Scien., XII, 1886, p. 15.

Sclat., Proc. Zoöl. Soc., 1893, p. 255.

BRAZZA'S MONKEY.

1. Adult — Exch. "Haut Oubanguin," Africa. Nat. Hist. Mus.
 Paris. Viancin.

Subgenus D. *Otopithecus*.1002. *Cercopithecus erxlebeni* Pucheran.

Cercopithecus erxlebeni Pucher., Rev. Mag. Zool., 1856, p. 96.

Gray, Proc. Zool. Soc., 1868, p. 182. Sclat., Proc. Zool. Soc., 1871, p. 36; 1893, p. 254.

ERXLEBEN'S MONKEY.

1. Adult ♂ P. Efulen Bulu Country, Cameroon, W. Africa. G. L. Bates.

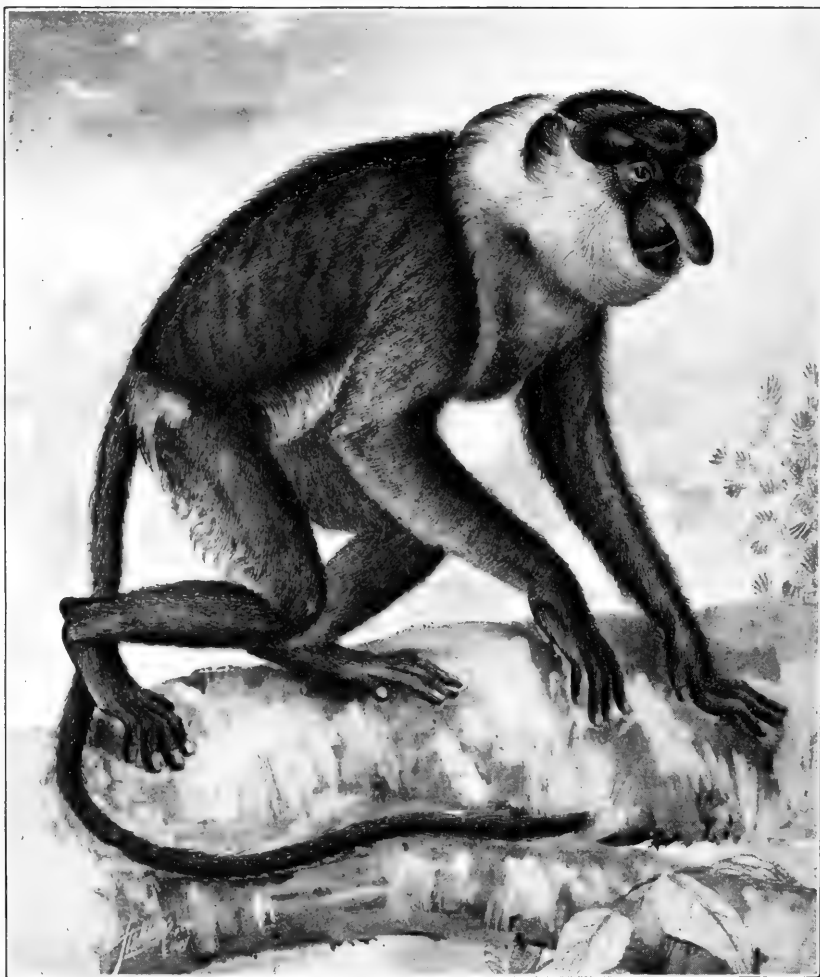


FIG. LXXXIX. NASALIS LARVATUS. PROBOSCIS MONKEY.

Subfamily II. **Presbytinae.**

Genus 333. **Nasalis.**

Nasalis Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 90. Type
Cercopithecus larvatus Wurm.

Rhinalazon Glog., Hand-u. Hilfsb. Naturg., I, 1841, pp. xxvii, 36.
Rhynchopithecus Dahlb., Zool. Stud., I, Andra Häftet, 1857, pp. 83,
 91-94, Tab. iv.

1003. *Nasalis larvatus* (Wurmb).

Cercopithecus larvatus Wurmb, Mag. Neuste Phys. u. Nat., II, 1784,
 p. 7. E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 12.
Simia nasica F. Cuv., Dict. Scien. Nat., XX, 1821, p. 32.
Nasalis recurvus Vig. & Horsf., Zool. Jour., IV, 1828-29, p. 109,
 fig. juv.
Rhynchopithecus larvatus Dahlb., Zool., Stud. I, Andra Häftet,
 1857, p. 93.

PROBOSCIS MONKEY.

- 1-4. Adult ♂ Group. Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
- 5-6. Adult ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
7. Juv. ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
8. Juv. — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 334. ***Presbytis.**

Presbytis Esch., Kotz. Entd.-Reise Süd See u. n. Ber.-Strass., III, 1821, p. 196, pl. Type *Presbytis mitrata* Eschscholtz.
Semnopitheque F. Cuv., Hist. Nat. Mamm., III, 1821, livr. xxx, pl. text. (nec Latin.)
Semnopithecus F. Cuv., Dents. Mamm., 1825, p. 247, pl. 4.
Trachypithecus Reichenb., Vollst. Naturg. Affen, 1862, p. 89, pls. xv, xvi, figs. 198-225.
Corypithecus Trouess., Rev. Mag. Zool., 3me Sér., VII, 1879, p. 53.
Lophopithecus Trouess., Rev. Mag. Zool., 3me Sér., VII, 1879, p. 53.
Presbypithecus Trouess., Rev. Mag. Zool., 3me Sér., VII, 1879, pp. 52, 56.

* There is no question as to the priority of *Presbytis* over *Semnopithecus*, for although Cuvier called it *Semnopitheque* in 1821, it was not Latinized until 1825, thus giving *Presbytis* four years' priority.

Subgenus A. *Lophopithecus*.**1004. *Presbytis femoralis* (Horsfield).**

Simia maura Raffles, Trans. Linn. Soc., XIII, 1821, p. 247. (nec Schreber.)

Semnopithecus femoralis Horsf., Life Raffles, 1830, Append., p. 644.

Semnopithecus chrysomelas Mull. & Schleg., Tijds. N. Geschied., v., 1838, p. 138, pl.

Semnopithecus sumatranus Mull. & Schleg., Verhandl., 1839-44, pp. 6, 73, pl. 10 bis, fig. 1.

THE LOTONG.

1. Adult — P. "Malacca." Ward's Nat. Scien. Establ., Rochester, N. Y.

a. Presbytis femoralis cruciger (Thomas).

Semnopithecus cruciger Thos., Ann. Mag. Nat. Hist., x, 1892, p. 475. *Id.* Proc. Zool. Soc., 1893, p. 3.

THOMAS'S LOTONG.

1. Adult — P. Batang Lupar, Sarawak, Borneo. A. Everett.

1005. *Presbytis sabanus* (Thomas).

Semnopithecus sabanus Thos., Ann. Mag. Nat. Hist., XII, 1893, p. 230, pl. VII.

PAITAN LOTONG

1. Adult — P. North Borneo. E. Gerrard & Sons.

1006. *Presbytis hosii* (Thomas).

Semnopithecus hosei Thos., Proc. Zool. Soc., 1889, p. 159, pl. XVI.

HOSE'S MONKEY.

1. Adult ♀ P. Kina Balu, N. W. Borneo. A. Everett.

Subgenus B. *Trachypithecus*.**1007. *Presbytis cristatus* (Raffles).**

Simia cristatus Raffles, Trans. Linn. Soc., XIII, 1821, p. 245.

Semnopithecus pruinus Desm., Mamm., 1820, Suppl., p. 333.

Semnopithecus cristatus Horsf., Life Raffles, 1830, App., p. 642.

Semnopithecus rutledgei Anders., Zool. Yunnan, 1878, p. 39.

CHINGKAU.

1. Adult ♀ P. Borneo. Menage Scientific Exp. Bourns & Worcester.

2. Adult — P. Borneo. Menage Scientific Exp. Bourns & Worcester.

3. Adult — P. Telok Betong, South Sumatra. W. Danne.

Subgenus C. *Presbypithecus*.**1008. *Presbytis johnei* (Fischer).***Simia johnei* Fisch., Syn. Mamm., I, 1829, p. 25.*Semnopithecus cucullatus* I. Geoff., Voy. Bélang., 1834, pp. 38, 72, pl. I.*Presbytis cephalopterus* Blyth, Jour. Asiat. Soc. Beng., XIII, 1844, p. 469.*Semnopithecus jubatus* Wagn., Schreb. Säugth., Suppl., I, 1840, p. 305.

JOHN'S MONKEY.

1. Adult — P. "India." Ward's Nat. Scien. Establ., Rochester, N. Y.

1009. *Presbytis fusco-murina* Elliot.*Presbytis fusco-murina* Elliot, Proc. Biol. Soc. Wash., XIX, 1906, p. 49.

MOUSE-COLORED MONKEY.

1. Adult — Type. P. Telok Betong, South Sumatra. W. Danne.

Subgenus D. *Semnopithecus*.**1010. *Presbytis entellus* (Dufresne).***Simia entellus* Dufresne, Bull. Soc. Philom., 1797, p. 49.*Semnopithecus entellus* Blyth, Jour. Asiat. Soc. Beng., XIII, 1844, p. 470.*Semnopithecus anchises* Elliot, in Blyth, Jour. Asiat. Soc. Beng., XIII, 1844, p. 470.

THE LANGUR.

1. Adult — P. "India." Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 335. **Colobus.****Colobus** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 69. Type *Simia polycomos* Schreber.*Colobolus* Gray, Lond. Med. Repos., xv, 1821, p. 298.*Guereza* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, pp. 5, 19.*Tropicolobus* Rocherb., Faun. Sénégal., Suppl. Vert., 1st fasc., 1886-87, p. 102, pls. II, XXVIII.*Piliocolobus* Rocherb., Faun. Sénégal., Suppl. Vert., 1st fasc., 1886-87, p. 105, pls. III-VI.

Stachycolobus Rocherb., Faun. Sénégalamb., Suppl. Vert., 1st fasc., 1886-87, p. 114, pl. VII.

Pterycolobus Rocherb., Faun. Sénégalamb., Suppl. Vert., 1st fasc., 1886-87, p. 125, pl. X.

Pterygocolobus Trouess., Cat. Mamm. Viv. et Foss., 1, 1897, p. 95.

Subgenus A. *Guereza*.

1011. *Colobus guereza* Rüppell.

Colobus guereza Rüpp., Neue Wirbelth., Säugth., 1835, p. 1, pl. 1.

Guereza ruppellii Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 19.

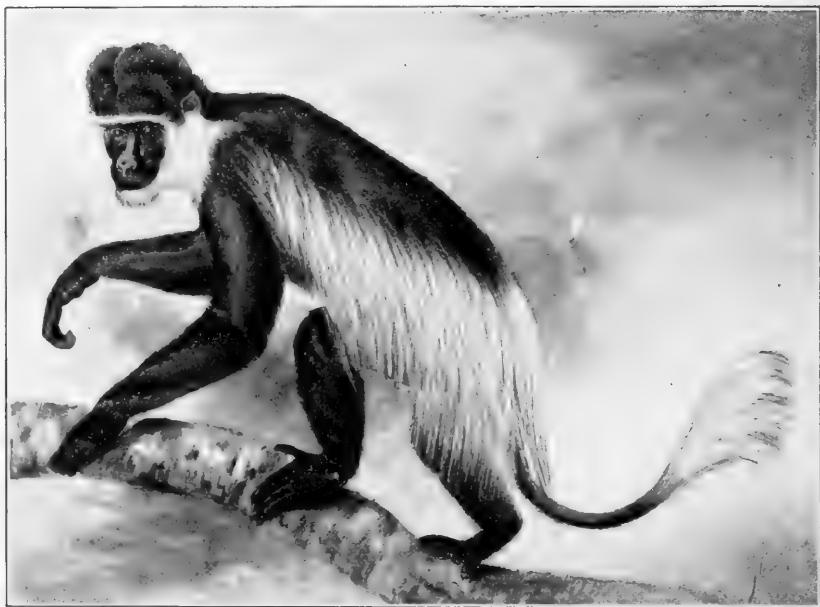


FIG XC. COLOBUS GUEREZA. THE GUEREZA.

THE GUEREZA.

* 1. Adult ♂ P. Abyssinia. P. H. G. Powell-Cotton.

* 2. Juv. ♂ P. Abyssinia. P. H. G. Powell-Cotton.

† The specimens procured by Mr. Powell-Cotton have the tail for more than basal half dark gray, and but little white on the buttocks. One is a fully adult male, the other young. Although appearing so different from typical *guereza* in these respects, for lack of material for comparison I leave them under that name.

3. Adult — P. Abyssinia. Ward's Nat. Scien. Establ., Rochester, N. Y.

1012. *Colobus angolensis* Sclater.

Colobus angolensis Sclat., Proc. Zool. Soc., 1860, p. 245.

ANGOLA COLOBUS.

1. Adult — P. Angola, W. Africa. E. Gerrard & Sons.

Family VII. **Hylobatidæ. Gibbons.**

Genus 336. **Hylobates.**

Hylobates Illig., Prodr. Syst. Mamm. et Av., 1811, p. 67. Type

Simia lar = *Homo lar* Linnæus.

Laratus Gray, Lond. Med. Repos., xv, 1821, p. 297.

Cheiron Burnett, Quart. Jour. Scien. Lit. & Art, xxvi, 1828, p. 307.

Symphalangus Glog., Hand-u. Hilfsb. Naturg., I, 1841, pp. xxvii,

34.

Syndactylus Boit., Jard. Plant. Paris, 1842, p. 55.

Siamanga Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xvii, 1.

Subgenus A. **Hylobates.**

1013. *Hylobates agilis* E. Geoffroy & F. Cuvier.

Hylobates agilis E. Geoff. & F. Cuv., Hist. Nat. Mamm., 1850,
p. 874.

SUMATRAN WOU-WOU.

1. Adult — P. Telok Betong, South Sumatra. W. Danne.

1014. *Hylobates leuciscus* (Schreber).

Simia leuciscus Schreb., Säugth., I, 1775, pl. cxi B.

Hylobates leuciscus Kuhl, Beit. Zool., 1820, p. 6.

Hylobates mulleri Martin, Intr. Nat. Hist. Quad., 1841, p. 144.

Hylobates concolor Müll., Verhandl. Zoogd. Ind. Arch., 1841, p. 48.
(nec Harlan.)

THE WOU-WOU.

1. Adult — P. Java. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3. Adult ♀ P. Kina Balu, N. Borneo. A. Everett.

4. Adult ♀ P. Sarawak, N. Borneo. A. Everett.

5. Adult — P. Borneo. Menage Scientific Exped. Bourns & Worcester.



FIG. XCI. HYLOBATES LAR. GIBBON.

Subgenus B. *Siamanga*.

1015. *Hylobates syndactylus* (Desmarest).

Pithecus syndactylus Desm., Mamm., 1820, p. 531.

Simia syndactyla Raffles, Trans. Linn. Soc., XIII, 1822, p. 241.

Siamanga syndactyla Gray, Cat. Monkeys, Lemurs & Fruit-eating
Bats Brit. Mus., 1870, p. 9.

THE SIAMANG.

1. Adult — P. Sumatra. Ward's Nat. Scien. Establ., Rochester,
N. Y.

Family VIII. **Simiidae.**Genus 337. **Pongo. Orang-utan.**

Pongo Lacépède., Tabl. Mamm., 1799, p. 4. Type *Pongo borneo*
Lacépède=*Simia pygmæus* Linnæus.

Pithecus G. Cuv., Tabl. Élément. Hist. Nat. Anim., 1798, p. 95.

Id. Leçons Anat. Comp., 1800, tab. 1. (nec Geoff. & Cuv., 1795.)

Lophotus Fish., Zoogn., II, 1813, pp. IX, 547.

Faunus Oken, Lehrb. Naturg., 3ter Theil, Zool., 2te Abth., 1816,
pp. XI, 1227. (nec Montfort, 1810, Mollusca.)

Macrobates Billb., Syn. Faun. Scandin., I, Mamm., 1828, Con-
spectus A.

a. *Pongo pygmæus pygmæus* (Linnæus).

Simia pygmæus Linn., Amœnit. Acad., 1763, p. 69.

Simia satyrus Linn., Syst. Nat., I, 1766, p. 34. (nec 1758, p. 25.)

Simia aërias Schreb., Säugth., I, 1774, Taf. 2c. (dimorphic.)

Pongo pygmæus pygmæus Roths., Proc. Zool. Soc., II, 1904, p.
436.

ORANG-UTAN.

1. Adult ♂ Pres. Borneo. Martin A. Ryerson. Bourns & Wor-
cester.

2. Adult ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Wor-
cester.

3. Juv. ♂ Pres. Borneo. Martin A. Ryerson. Bourns & Wor-
cester.

4. Juv. ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Wor-
cester.

5-6. Juv. — Pres. Borneo. Martin A. Ryerson. Bourns & Wor-
cester.

Genus 338. **Simia. Chimpanzees.**

Simia Linn., Syst. Nat., I, 1758, p. 25. Type *Simia satyrus* Linnæus.

Troglodytes E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812,
p. 87. (nec Vieillot, 1806, Ornith.)

Pan Oken, Lehrb. Naturg., 3ter Theil, Zool., 2te Abth., 1816, pp.
XI, 1230.

Mimetes Leach, Thomson's Ann. Philos., XVI, 1820, p. 104.

Theranthropus Brookes, Cat. Anat. Zool. Mus. J. Brookes, Lond.,
1828, p. 28.

Anthropopithecus Blainv., Ann. France et Étrang. d'Anat. et Physiol., Paris, II, 1838, p. 380.

Hylanthropus Glog., Hand-u. Hilfsb. Naturg., I, 1841, pp. XXVII, 34.

Pseudanthropus Reichenb., Fortsetz. vollst. Naturg., 1860. *Id.* Vollst. Naturg. Affen, 1862, pp. 191-194, Taf. xxxiv, xxxvii, figs. 493-494, xxxviii, fig. 501.

Engeco Haeckel, Gen. Morph. Organism., II, 1866, pp. cl, footnote. CLX.



FIG. XCII. SIMIA P. CHIMPANSE. CHIMPANZEE.

Pongo Haeckel, Gen. Morph. Organism., II, 1866, p. CL. (nec Lacép., 1799.)

1016. *Simia satyrus* Linnæus.

Simia satyrus Linn., Syst. Nat., I, 1758, p. 25. (nec 1766, p. 34.)

Roths., Proc. Zool. Soc., II, 1904, p. 422.

Simia troglodytes Gmel., Syst. Nat., 1788, p. 26.

Troglodytes niger Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 87.

Troglodytes tschego Duvern., Arch. Mus. Hist. Nat. Paris, VIII, 1855, p. 8.

Troglodytes calvus Du Chaillu, Proc. Bost. Soc. Nat. Hist., VII, 1861, p. 296.

THE TSCHEGO.

1. Adult — P. Congo, West Africa. Roland Ward & Co.

1017. *Simia pygmæus* Schreber.

Simia pygmæus Schreb., Säugth., III, 1777, p. 432, fig. 113. Roths., Proc. Zool. Soc., II, 1904, p. 430.

SMALL CHIMPANZEE.

1. Adult ♂ P. Fernan Vaz, Gaboon, West Africa. Deyrolle Fils.

a. Simia pygmæus chimpanse (Mayer).

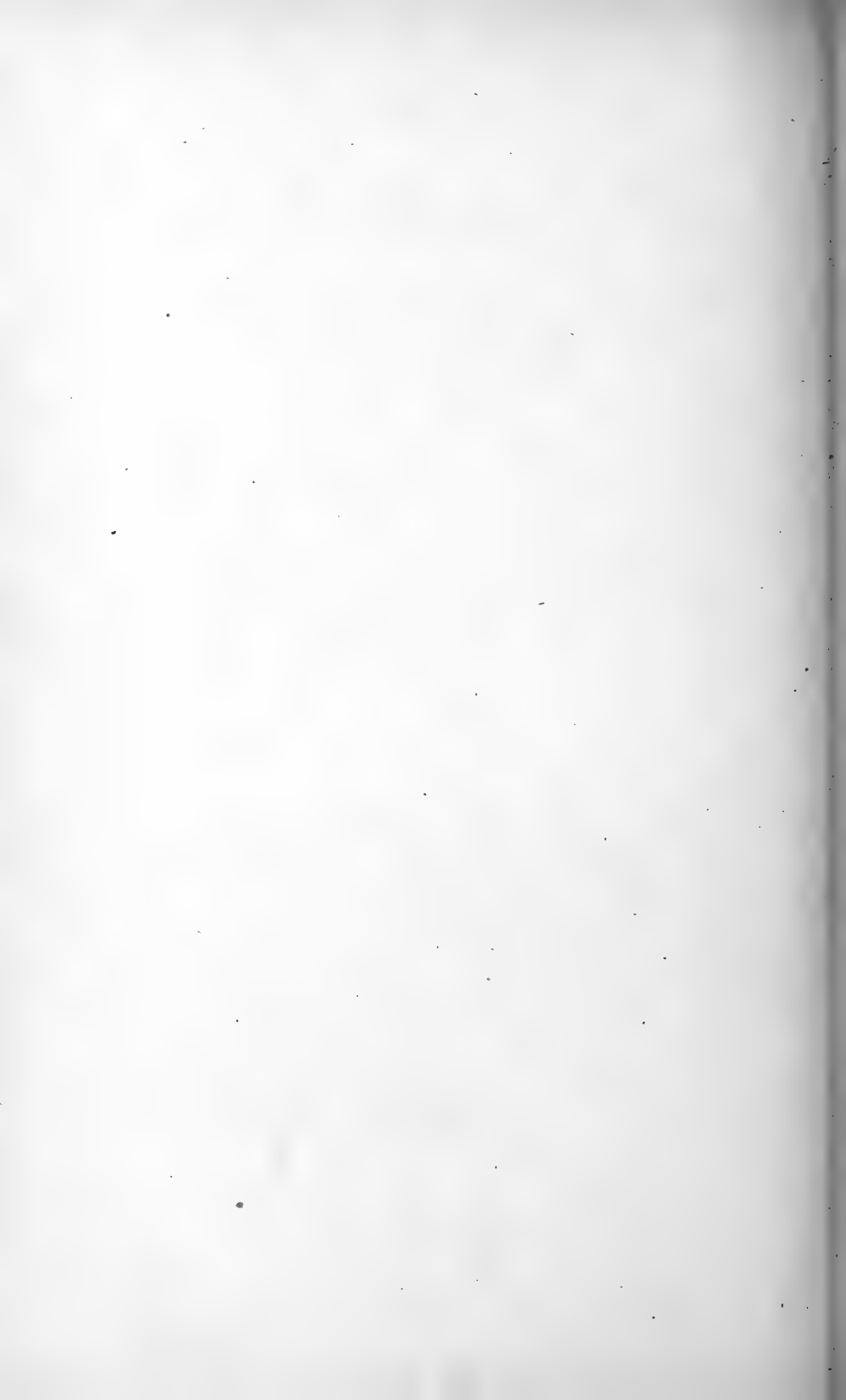
Satyrus chimpanse Mayer, Arch. Naturg., XXII, 1856, p. 282.

Simia chimpanse Matsch., Sitzungsab. Ges. Naturf. Freunde Berlin, 1900, pp. 77-85; 1904, pp. 55-69.

Simia pygmæus chimpanse Roths., Proc. Zool. Soc., II, 1904, p. 428.

CHIMPANZEE.

1. Juv. ♀ Pres. West Africa. Ringling Bros.



INDEX OF LATIN NAMES.

	PAGE.		PAGE.
abbreviatus. (<i>Microtus</i>).....	295	<i>Aegoceros</i>	91
aberti. (<i>Sciurus</i>).....	125, 126	<i>Aegoceros agagrus</i>	92
<i>Abomys</i>	331	<i>Aegoceros argali</i>	98
<i>Abomys lordi</i>	335	<i>Aegoceros beden</i>	92
<i>Abrothrix</i>	263	<i>Aegoceros falconeri</i>	93
<i>Abrothrix caliginosus</i>	263	<i>Aegoceros hircus</i>	92
abyssinica. (<i>Genetta</i>).....	398	<i>Aegoceros ibex</i>	91
abyssinicus. (<i>Cephalophus</i>)....	61	<i>Aegoceros leucophæus</i>	82
abyssinicus. (<i>Cephalophus</i>).....	62	<i>Aegoceros musimon</i>	98
acadicus. (<i>Meriones</i>).....	350	<i>Aegoceros n. kirki</i>	83
acadicus. (<i>Microtus p.</i>).....	289	<i>Aegoceros pallasi</i>	92
<i>Acanthion cuvieri</i>	361	<i>Aegoceros pictus</i>	92
<i>acanthion</i> . (<i>Echidna</i>).....	2	ægyptiaca. (<i>Hamadryas</i>).....	565
acetabulosus. (<i>Molossus</i>).....	524	ægyptiacus. (<i>Nyctinomus</i>).....	523
acetabulosus. (<i>Nyctinomus</i>).....	524	æliani. (<i>Phacochoerus</i>).....	33
<i>Acheus</i>	22	<i>Ælurinae</i>	423
<i>Acinonyx</i>	396	<i>Ælurus</i>	423
<i>Acinonyx jubatus</i>	396	<i>Ælurus fulgens</i>	423
<i>Acinonyx venator</i>	396	æneus. (<i>Scalops</i>).....	481
<i>Acodon</i>	263	<i>Aeorestes</i>	500
<i>Acodon teguina</i>	263	<i>Æpyceras</i>	71, 72
<i>Acodon urichi</i>	263	<i>Æpyceras melampus</i>	72
acotion. (<i>Alactaga</i>).....	353	<i>Æpyceras petersi</i>	72
acotion. (<i>Dipus</i>).....	353	<i>Æpyceros</i>	71, 72
acraea. (<i>Teonoma</i>).....	279	<i>Æpyceros melampus</i>	72
acraea. (<i>Teonoma c.</i>).....	279	<i>Æpyceros m. holubi</i>	72
<i>Acrobates</i>	15	<i>Æpyceros m. johnstoni</i>	72
<i>Acrobates pygmæus</i>	15	<i>Æpyceros petersi</i>	72
acrobates. (<i>Sciurus</i>).....	186	<i>Æpyprymnus</i>	17
<i>Acronotus</i>	55	<i>Æpyprymnus rufescens</i>	17
<i>Acronotus caama</i>	55, 56	æthiopica. (<i>Capra</i>).....	82
actuosa. (<i>Mustela a.</i>).....	444	æthiopicus. (<i>Aper</i>).....	32
aculeata. (<i>Myrmecophaga</i>).....	2	<i>Aethiops</i>	568
aculeatus. (<i>Tachyglossus</i>).....	2	æthiops. (<i>Simia</i>).....	568
acuticaudatus. (<i>Molossus</i>).....	522	affinis. (<i>Hesperomys</i>).....	240
adailensis. (<i>Herpestes</i>).....	403	affinis. (<i>Neotoma f.</i>).....	266
<i>Addaxinae</i>	82	affinis. (<i>Peromyscus</i>).....	240
<i>Adelonycteris</i>	509	affinis. (<i>Sciurus</i>).....	120, 130
<i>Adenonotus</i>	34	affinis. (<i>Tamias q.</i>).....	155
<i>Adenota</i>	67	affinis. (<i>Taphozous</i>).....	521
<i>Adenota vardonii</i>	69	affinis. (<i>Vespertilio</i>).....	504
ægagrus. (<i>Aegoceros</i>).....	92	africani. (<i>Manis</i>).....	28
ægagrus. (<i>Capra</i>).....	92	africanus. (<i>Macrocephalus</i>).....	33
ægagrus. (<i>Hircus</i>).....	92	africanus. (<i>Potamochoerus</i>).....	33

	PAGE.		PAGE.
africanus. (Sus).....	33	albini. (Phoca).....	463
agilis. (Dipodomys).....	327	albipes. (Antilope).....	84
agilis. (Grymæomys).....	4	albipes. (Bassariscus).....	425
agilis. (Hylobates).....	575	albipes. (Boselaphus).....	84
agilis. (Perodipus).....	327	albirostris. (Sus).....	35
Agouti.....	364	albiventer. (Cynopterus).....	495
Agouti paca.....	364	albiventer. (Oryzomys).....	50
Agoutidæ.....	362	albiventris. (Erinaceus).....	466
agrias. (Simia).....	577	albojubatus. (Connochaetes) ..	59, 60
Agricola.....	286	albojubatus. (Connochaetes t.)..	59
Agridodus.....	407	albolimbatus. (Heteromys).....	346
aguti. (Dasyprocta).....	363, 364	albolimbatus. (Sciurus d.).....	141
aguti. (Mus).....	364	alborufescens. (Arvicola).....	287
ahænobarbus. (Sus).....	32	albus. (Canis l.).....	412
Aigocerus.....	82	albus. (Lupus).....	412
Aigocerus ellipsiprymnus.....	67	Alce.....	41, 44
Aigocerus niger.....	82	Alce alces.....	41, 42
Ailurops.....	11	Alce gigas.....	42
Ailurus.....	423	alces. (Alce).....	41
Ailurus fulgens.....	423	Alcelaphus.....	41, 55
Ailurus ochraceus.....	423	Alcelaphus caama.....	55, 56
akeleyi. (Peromyscus).....	223	Alcelaphus cokei.....	55
Akodon.....	263	Alcelaphus cooki.....	55
Akodon boliviense.....	263	Alcelaphus jacksoni.....	56
Akodon urichi.....	263	Alcelaphus lichtensteini.....	55, 56
alacer. (Lepus f.).....	369	Alcelaphus senegalensis.....	58
alacer. (Lepus s.).....	369	Alces.....	41
Alactaga.....	353	Alces americanus.....	41
Alactaga acontion.....	353	Alces gigas.....	42
alactaga. (Dipus).....	353	Alces machlis.....	42
alascana. (Callotaria).....	457, 458	Alces muswa.....	42
alascanus. (Callorhinus).....	457	Alces palmatus.....	42
alascensis. (Dicrostonyx h.).....	307	alces. (Alce).....	41, 42
alascensis. (Lemmus).....	306	alces. (Cervus).....	41
alba. (Felis t.).....	387	alexandrinus. (Mus).....	195
alba. (Phalangista).....	11	algazel. (Antilope).....	83
alba. (Tigris r.).....	387	algazel. (Oryx).....	83
albertisi. (Dactylopsila).....	14	Allactaga.....	353
albescens. (Vespertilio).....	505	alleni. (Heteromys).....	346, 347
albicauda. (Phoca).....	463	alleni. (Hodomys).....	281
albicornis. (Cervus).....	42	alleni. (Lepus).....	378
albifrons. (Antilope).....	58	alleni. (Microtus).....	303
albifrons. (Damalis).....	58	alleni. (Neofiber).....	303
albifrons. (Damaliscus).....	58	alleni. (Neotoma).....	281
albifrons. (Lemur m.).....	544	alleni. (Zapus).....	352
albifrons. (Paradoxurus).....	400	alleni. (Zapus t.).....	352
albifrons. (Prosimia).....	544	alopex. (Canis).....	416
albigula. (Neotoma).....	275	Alouatta.....	554
albigula. (Neotoma i.).....	275	Alouatta palliata.....	555
albigularis. (Myodes).....	306	Alouatta p. coibensis.....	556
albimanus. (Lemur).....	544	Alouatta p. mexicana.....	555

	PAGE.		PAGE.
Alouatta seniculus.....	554	amœnus. (Tamias).....	152
Alouatta ursina.....	554	Amphisorex lesueuri.....	467
Alouattinae.....	554	amplexicaudata. (Cynonycteris) .	493
alpinus. (Ibex).....	92	amplexicaudata. (Glossophaga)...	532
alpinus. (Pteromys).....	184	amplexicaudata. (Xantharpyia) .	494
alpinus. (Pteromys s.).....	184	amplexicaudatus. (Pteropus)....	493
alpinus. (Sciuropterus).....	184	analiculatus. (Bos).....	99
alpinus. (Sciuropterus v.).....	184	anastasæ. (Peromyscus).....	217
alpinus. (Tamias).....	157	anastasiæ. (Peromyscus).....	217
alpinus. (Tamias m.).....	157	anastasiæ. (Scalops).....	484
alpinus. (Thomomys).....	320	anatinus. (Dermipus).....	1
alstoni. (Sciurus).....	122	anatinus. (Ornithorhynchus)	1
altaicus. (Moschus m.).....	38	anatinus. (Platypus).....	1
alticola. (Microtus).....	298	anchietæ. (Cephalophus).....	61
alticolus. (Arvicola).....	298	anchises. (Semnopithecus).....	573
altifrons. (Antilope).....	62	andersoni. (Herpestes).....	402
altifrontalis. (Ursus).....	422	angolensis. (Colobus).....	575
ambarvalis. (Spilogale).....	441	angulatum. (Tagassu).....	34
ambiguus. (Dipodomys).....	323	angulatus. (Dicotyles).....	34
ambiguus. (Dipodomys m.).....	323	angulifera. (Panthera).....	390
Amblotis.....	10	angusticeps. (Microtus).....	297
Amblotis fossor.....	11	angusticeps. (Sorex).....	474
amboinensis. (Cœscoes).....	11	angustirostris. (Macrorhinus)....	460
americana. (Antilocapra).....	53	angustirostris. (Mirounga).....	460
americana. (Antilope).....	53	angustirostris. (Perognathus p.) .	338
americana. (Mustela).....	443	angustivittis. (Phalangista).....	14
americana. (Taxidea).....	430	Anisonyx.....	180, 188
americanus. (Alces).....	41	Anisonyx rufa.....	188
americanus. (Bison).....	100	anjuanensis. (Lemur).....	544
americanus. (Bos).....	100	annallatus. (Cebus).....	561
americanus. (Cervus d.).....	45, 46	annectens. (Neotoma f.).....	266
americanus. (Jaculus).....	350	annellata. (Phoca).....	462, 463
americanus. (Lepus).....	383	annulatus. (Citellus).....	179
americanus. (Manatus).....	30	annulatus. (Spermophilus).....	179
americanus. (Meles t.).....	430	Anoa mindorensis.....	99
americanus. (Mus a.).....	208	Anomaluridæ.....	107
americanus. (Mustela).....	443	Anomalurinæ.....	107
americanus. (Odocoileus).....	46	Anomalurus.....	107
americanus. (Odontocœlus).....	46	Anomalurus beecrofti.....	107
americanus. (Peromyscus).....	208	Anomalurus erythronotus.....	107
americanus. (Sciurus).....	157	Anomalurus fraseri.....	107
americanus. (Ursus).....	422	Anomalurus pelii.....	107
Ammodorcas.....	79	anomalus. (Heteromys).....	345
Ammodorcas clarkæi.....	79	anomalus. (Mus).....	344, 345
Ammodorcas clarkii.....	79	Anomolocera.....	51
Ammomys.....	286	Anomolocera huamel.....	52
ammon. (Capra).....	98	Anotus.....	474
ammon. (Ovis).....	98	ansonii. (Phoca).....	460
Ammospermophilus.....	160	Anteater. (Ursine).....	23
amœnus. (Perognathus o.).....	334	anthonyi. (Hesperomys).....	205
amœnus. (Rhithrodonomys)....	262	anthonyi. (Peromyscus).....	205

	PAGE.		PAGE.
anthonyi. (<i>Sciurus f.</i>).....	135	Antilope gnou.....	60
anthonyi. (<i>Sciurus g.</i>).....	135	Antilope gnu.....	58, 60
Anthropoidea.....	553	Antilope goral.....	91
Anthropopithecus.....	578	Antilope gorgon.....	59
anthus. (<i>Canis</i>).....	408	Antilope grimmia.....	61
anthus. (<i>Dieba</i>).....	408	Antilope grisea.....	58
anthus. (<i>Lupus</i>).....	408	Antilope hemprichiana.....	65
Antidorcas.....	75	Antilope hodgsonii.....	73
Antidorcas euchore.....	75	Antilope isabellina.....	70
Antidorcas marsupialis.....	75	Antilope kevela.....	76
antillularum. (<i>Nyctinomus</i>)....	524	Antilope klippspringer.....	63
Antilocapra.....	53	Antilope koba.....	67
Antilocapra americana.....	53	Antilope lervia.....	95
Antilocapra a. mexicana.....	53	Antilope leucopus.....	84
Antilocapridæ.....	53	Antilope leucotis.....	69
Antilope.....	71	Antilope lichtensteini.....	56
Antilope albifrons.....	58	Antilope lunata.....	56
Antilope albipes.....	84	Antilope madoqua.....	61, 64
Antilope algazel.....	83	Antilope marsupialis.....	75
Antilope altifrons.....	62	Antilope melampus.....	71, 72
Antilope americana.....	53	Antilope melanorheus.....	61
Antilope arabica.....	77	Antilope mergens.....	62
Antilope arundinacea.....	71	Antilope montana.....	63
Antilope arundinaceus.....	70	Antilope monticola.....	62
Antilope arundinum.....	70	Antilope niger.....	82
Antilope aurita.....	82	Antilope nigra.....	82
Antilope barbata.....	82	Antilope ocularis.....	62
Antilope beisa.....	83	Antilope oleotragus.....	70
Antilope bennettii.....	77	Antilope oreotragus.....	63, 70
Antilope bezoartica.....	83	Antilope oryx.....	83, 89
Antilope bohor.....	70	Antilope ourebi.....	63
Antilope bubalina.....	90	Antilope pasan.....	83
Antilope burchelli.....	62	Antilope picta.....	84
Antilope buselaphus.....	54	Antilope picticaudata.....	76
Antilope caama.....	55, 56	Antilope platous.....	62
Antilope cærulescens.....	70	Antilope ptoox.....	62
Antilope campestris.....	64	Antilope pygargus.....	56, 58
Antilope capensis.....	60	Antilope recticornis.....	83
Antilope cervicapra.....	70, 71	Antilope redunda.....	70
Antilope chiru.....	73	Antilope rupicapra.....	71
Antilope chora.....	88	Antilope saccata.....	75
Antilope cinerea.....	70, 91	Antilope saiga.....	72
Antilope corinna.....	76	Antilope saliens.....	75
Antilope d. senegalensis.....	68	Antilope saltans.....	75
Antilope dorcas.....	55, 58, 76	Antilope saltatrix.....	63, 75
Antilope dorsalis.....	60	Antilope saltatrixoides.....	63
Antilope eleotragus.....	70	Antilope saltiana.....	65
Antilope ellipsiprymnus.....	67	Antilope scythica.....	72
Antilope equina.....	82	Antilope silvicultrix.....	60
Antilope euchore.....	75	Antilope soemmerringi.....	78
Antilope gazella.....	76, 92	Antilope s. berberana.....	78

	PAGE.		PAGE.
Antilope soemmerringii.....	78	arabica. (Antilope).....	77
Antilope strepsiceros.....	88	arabica. (Capra).....	92
Antilope sumatrensis.....	90	arabicus. (Camelus).....	36
Antilope sylvatica.....	85	Aræosciurus.....	114, 122
Antilope taurina.....	59	arana. (Crocidura).....	478
Antilope tendal.....	88	araneus. (Sorex).....	466, 478
Antilope thar.....	90	arboreus. (Peromyscus).....	202
Antilope tragocamelus.....	84	arctica. (Cervus t.).....	41
Antilope truteri.....	82	Arctictis.....	400
Antilope unctuosæ.....	67	Arctictis binturong.....	400
Antilope vardoni.....	69	Arctictis penicillatus.....	400
antiquorum. (Felis).....	387	arcticus. (Hesperomys l.).....	220
antiquorum. (Hyæna).....	405	arcticus. (Lepus).....	383
antiquorum. (Panthera).....	388	arcticus. (Lepus t.).....	383
antisiensis. (Cervus).....	52	arcticus. (Peromyscus t.).....	220
antisiensis. (Furcifer).....	52	arcticus. (Putorius).....	449
antisiensis. (Hippocamelus).....	52	arcticus. (Rangifer).....	41
antricola. (Phyllorhina).....	498	arcticus. (Rosmarus).....	459
Antrozoinæ.....	518	Arctocephalus.....	457
Antrozous.....	518	Arctocephalus monteriensis.....	457
Antrozous pallidus.....	518	Arctogale.....	401, 446, 448
Antrozous p. pacificus.....	518	Arctogale leucotis.....	401
Aotinæ.....	556	Arctogalidia.....	401
apache. (Felis).....	393	Arctogalidia leucotis.....	401
apache. (Felis e.).....	393	Arctomys.....	182
apache. (Perognathus).....	332	Arctomys beecheyi.....	176
apache. (Sciurus).....	123	Arctomys columbianus.....	172
apatelius. (Oryzomys j.).....	251	Arctomys douglasii.....	179
Aper.....	31	Arctomys flaviventer.....	183
Aper æthiopicus.....	32	Arctomys franklinii.....	168
aper. (Sus s.).....	31	Arctomys guttatus.....	173
aperea. (Cavia).....	364	Arctomys hoodi.....	166
aphrastus. (Thomomys).....	319	Arctomys kennicottii.....	171
apicalis. (Hypsiprymnus).....	16	Arctomys la-trans.....	180
apicalis. (Neotoma f.).....	280	Arctomys ludovicianus.....	180
apicalis. (Teonoma f.).....	280	Arctomys melanopus.....	183
Aplocerus.....	90	Arctomys missouriensis.....	180
Aplodontia.....	188	Arctomys monax.....	182
Aplodontia leporina.....	188, 189	Arctomys m. canadensis.....	183
Aplodontia olympica.....	189	Arctomys olympus.....	184
Aplodontia pacifica.....	188	Arctomys parryi.....	171
Aplodontia phæa.....	189	Arctomys p. phœgnatha.....	171
apus. (Pipistrellus h.).....	508	Arctomys richardsonii.....	173
aquaticus. (Oryzomys).....	250	Arctopithecus.....	22
aquaticus. (Scalops).....	483	arctos. (Ursus).....	419
aquaticus. (Scalopus).....	482, 483	arenarius. (Perognathus).....	340
aquaticus. (Sorex).....	482	arenarius. (Perognathus p.).....	340
Aquias luctus.....	497	arenivagus. (Dipodomys m.).....	325
Aquias trifoliatus.....	498	argali. (Aegoceros).....	98
aquilus. (Canis).....	408	argali. (Caprovis).....	98
aquilus. (Urocyon).....	408, 419	argali. (Musimon).....	98

	PAGE.		PAGE.
argali. (Ovis).....	98	Arvicola edax.....	294
argentata. (Vulpes f.).....	413, 414	Arvicola ferrugineus.....	244
argentata. (Vulpes p.).....	413	Arvicola floridana.....	269
argentatus. (Canis).....	413	Arvicola fulva.....	287
argentatus. (Scalops).....	483	Arvicola gapperi.....	283
argenteo-cinereus. (Heliophobius).....	348	Arvicola hirsutus.....	287
argenteo-cinereus. (Myoscalops).....	348	Arvicola hortensis.....	244
aries. (Ovis).....	95	Arvicola inasperatus.....	289
aristotelis. (Cervus).....	43	Arvicola leucophæus.....	298
arizonæ. (Lepus).....	375	Arvicola longicaudus.....	296
arizonæ. (Lepus s.).....	375	Arvicola mexicanus.....	298
arizonæ. (Peromyscus a.).....	212	Arvicola microcephalus.....	290
arizonæ. (Peromyscus l.).....	212	Arvicola modesta.....	289
arizonæ. (Peromyscus t.).....	212	Arvicola mogollonensis.....	299
arizonæ. (Sigmodon h.).....	246	Arvicola mordax.....	296
arizonæ. (Sitomys a.).....	212	Arvicola nanus.....	290
arizonensis. (Cynomys).....	181	Arvicola nasuta.....	287
arizonensis. (Putorius).....	452	Arvicola nuttalli.....	238
arizonensis. (Reithrodontomys).....	259	Arvicola occidentalis.....	295
arizonensis. (Rhithrodontomys).....	259, 260	Arvicola oneida.....	287
arizonensis. (Sciurus).....	122	Arvicola oregoni.....	301
armatus. (Citellus).....	173	Arvicola oryzivora.....	249
armatus. (Spermophilus).....	173	Arvicola palustris.....	287
arquatus. (Vespertilio).....	509	Arvicola phæus.....	299
arsipus. (Vulpes).....	416	Arvicola pinetorum quasiater.....	301
Artibeus.....	535	Arvicola riparius.....	287
Artibeus carpolegus.....	536	Arvicola r. longipilis.....	287
Artibeus femurvillosus.....	537	Arvicola rufescens.....	287
Artibeus hercules.....	537, 538	Arvicola rufidorsum.....	287
Artibeus intermedius.....	536	Arvicola terrænovæ.....	290
Artibeus jamaicensis.....	535, 536	Arvicola texiana.....	245
Artibeus palmarum.....	536	Arvicola townsendii.....	295
Artiodactyla.....	31	Arvicola trimucronatus.....	306
aruensis. (Sus).....	31	Arvicola trowbridgi.....	292
arundinacea. (Antilope).....	71	arvicoloides. (Aulacomys).....	302
arundinaceus. (Antilope).....	70	arvicoloides. (Microtus r.).....	302
arundinum. (Antilope).....	70	Asagis.....	3
arundinum. (Cervicapra).....	70	Ascomys.....	308
arvalis. (Mus).....	286	Ascomys canadensis.....	309
Arvicola.....	286, 302	Ascomys umbrinus.....	317
Arvicola alborufescens.....	287	Asinus equioides.....	104
Arvicola alticolus.....	298	Asinus polyodon.....	104
Arvicola austerus.....	299	Asinus zebra.....	103
Arvicola a. curtatus.....	299	assamensis. (Macacus).....	567
Arvicola a. minor.....	300	assamensis. (Sciurus).....	120
Arvicola californica.....	291	asseel. (Bibos).....	100
Arvicola cinnamomea.....	299	Astromycter.....	481
Arvicola curtata.....	299	Astromyctes.....	481
Arvicola dekayi.....	287	Astromydes.....	481
Arvicola drummondii.....	290	astuta. (Bassaris).....	424
		astutus. (Bassariscus).....	424

	PAGE.		PAGE.
Atalapha.....	512	auritus. (Vampyrus).....	528
Atalapha borealis.....	512	auritus. (Vespertilio).....	517
Atalapha teliotis.....	513	aurogaster. (Sciurus).....	127
Atelerix.....	466	austerus. (Arvicola).....	299
Ateles.....	559	austerus. (Hesperomys).....	225
Ateles fuliginosus.....	559	austerus. (Microtus).....	299, 300
Ateles pan.....	559	austerus. (Peromyscus).....	225
Ateles vellerosus.....	559	australiensis. (Echidna).....	2
Atelocheirus.....	559	australis. (Dugong).....	30
Atelodus.....	104	australis. (Halicore).....	30
ater. (Ictides).....	400	australis. (Manatus).....	29
ater. (Lupus).....	412	australis. (Petaurus).....	14
Atilax.....	401	australis. (Scalops a.).....	484
atkinsoni. (Helogale).....	403	australis. (Scalopus a.).....	484
Atlantoxerus.....	108	austrinus. (Geomys f.).....	308
Atophyrax.....	473	austrinus. (Geomys t.).....	309
Atophyrax bendirii.....	473	austroriparius. (Vespertilio l.)...	504
Atophyrax b. palmeri.....	473	Avahi.....	543
attwateri. (Geomys b.).....	310	Avahis laniger.....	543
attwateri. (Lepus a.).....	367	avia. (Mephitis).....	434
attwateri. (Neotoma).....	269	avia. (Mephitis m.).....	434
attwateri. (Neotoma f.).....	269	Axis.....	42
attwateri. (Peromyscus).....	231	ayæus. (Bos).....	100
aubryana. (Genetta).....	399	azaræ. (Canis).....	408
aubryi. (Sciurus).....	115	azaræ. (Cervus).....	50
Auchenia.....	36	azaræ. (Dasypsecta).....	363
Auchenia huanaca.....	36	Azema.....	548
Auchenias.....	36	aztecus. (Felis h.).....	392
auduboni. (Sciurus).....	124	aztecus. (Hesperomys).....	241
auduboni. (Vespertilio).....	506	aztecus. (Lepus f.).....	370
Aulacodus.....	358	aztecus. (Lepus s.).....	370
Aulacodus semipalmatus.....	358	aztecus. (Molossus).....	522
Aulacodus swinderenianus.....	358	aztecus. (Peromyscus).....	241
Aulacomys.....	287	aztecus. (Reithrodontomys).....	257
Aulacomys arvicoloides.....	302		
auratus. (Mycetes).....	554	babouin. (Cynocephalus).....	566
aureigaster. (Sciurus).....	127, 130	bachmani. (Lepus).....	376
aureogaster. (Sciurus).....	127, 128	bachmani. (Lepus f.).....	376
aureolus. (Mus).....	238	bachmani. (Lepus s.).....	370
aureus. (Calomys).....	361, 362	bactrianus. (Camelus).....	36
aureus. (Callomys).....	361, 362	badging. (Sciurus).....	117
aureus. (Cervus).....	39	badia. (Felis).....	394
aureus. (Macacus).....	567	badius. (Cephalophus).....	60
aureus. (Thomomys).....	321	Baginia.....	114, 120
aurinuchalis. (Pteropus).....	492	baileyi. (Felis r.).....	395
auri-nuchalis. (Pteropus).....	492	baileyi. (Lepus).....	374
auripectus. (Peromyscus).....	229	baileyi. (Lynx).....	395
auripectus. (Sitomys).....	229	baileyi. (Neotoma).....	269
aurita. (Antilope).....	82	baileyi. (Neotoma c.).....	269
auritus. (Chrotopterus).....	528	baileyi. (Sciurus h.).....	138
auritus. (Plecotus).....	517	Baiomys.....	203

	PAGE.		PAGE.
Baiosciurus.....	114	Belideus.....	14
bairdi. (Lepus).....	384	Belideus gracilis.....	14
bairdi. (Lepus a.).....	384	Belideus sciureus.....	14
bairdi. (Tapirella).....	102	bella. (Neotoma).....	276
bairdii. (Elasmognathus).....	102	belzebul. (Simia).....	554
balabacensis. (Sus).....	32	bendirii. (Atophrax).....	473
Balantia.....	11	bengalensis. (Felis).....	390
Balantia vulpina.....	12	bengalensis. (Nycticebus).....	549, 550
Balantiopteryx.....	520	bengalensis. (Viverra).....	398
Balantiopteryx plicata.....	520	bennetti. (Gacella).....	77
baluensis. (Sciurus).....	119	bennetti. (Gazella).....	77
bangsi. (Perognathus l.).....	333	bennettii. (Antilope).....	77
bangsi. (Perognathus p.).....	333	bennettii. (Tragops).....	77
barbara. (Galera).....	443	berberana. (Antilope s.).....	78
barbara. (Mustela).....	442, 443	berlandieri. (Taxidea).....	431
barbarus. (Felis).....	392	berlandieri. (Taxidea a.).....	431
barbarus. (Satalius).....	408	berlandieri. (Taxidea t.).....	431
barbarus. (Sus s.).....	31	bernardinus. (Citellus c.).....	170, 171
barbata. (Antilope).....	82	bernardinus. (Eptesicus f.).....	511
barbei. (Sciurus).....	112	bernardinus. (Spermophilus).....	170
barbii. (Funambulus m.).....	112	bernardinus. (Spermophilus c.).....	170
barrowensis. (Citellus).....	172	bernardinus. (Vespertilio f.).....	511
barrowensis. (Spermophilus).....	172	betsileoensis. (Brachyuromys).....	199
Bassaris.....	424	betsileoensis. (Nesomys).....	199
Bassaris astuta.....	424	Bettongia.....	16
Bassaris raptor.....	425	Bettongia grayi.....	17
Bassariscus.....	424	Bettongia lesueurii.....	16
Bassariscus albipes.....	425	Bettongia rufescens.....	17
Bassariscus astutus.....	424	betulinus. (Mus).....	349
Bassariscus a. oregonus.....	425	bezoartica. (Antilope).....	83
Bassariscus a. raptor.....	425	bezoartica. (Cervicapra).....	71
Bassariscus f. oregonus.....	425	bezoarticus. (Cervus).....	50
bassii. (Phascolumys).....	11	bezoarticus. (Odontocelus).....	50
Bathyergidæ.....	348	Bibos asseel.....	100
Bathyergus.....	348	Bibos cavifrons.....	100
Bathyergus maritimus.....	348	Bibos subhemachus.....	100
battyi. (Odocoileus).....	48	bicolor. (Hipposiderus).....	498
battyi. (Odontocelus).....	48	bicolor. (Mephitis).....	438
Bdelygma.....	495	bicolor. (Mycetes).....	554
Bdelygma major.....	495	bicolor. (Ratufa).....	113
beccarii. (Dorcopsis).....	17	bicolor. (Rhinolophus).....	498
beden. (Ægoceros).....	92	bicolor. (Sciurus).....	113
beecheyi. (Arctomys).....	176	bicolor. (Tapiurus).....	101
beecheyi. (Citellus v.).....	176	bilineata. (Saccopteryx).....	520
beecheyi. (Spermophilus g.).....	176	bilineatus. (Urocyrtus).....	520
beecrofti. (Anomalurus).....	107	bilobatum. (Uroderma).....	537
beisa. (Antilope).....	83	bimaculatus. (Perognathus).....	332
beisa. (Oryx).....	83	binotata. (Nandinia).....	401
belangeri. (Vespertilio).....	515	binotata. (Viverra).....	401
beldingi. (Citellus).....	174	binturong. (Arctictis).....	400
beldingi. (Spermophilus).....	174	binturong. (Viverra).....	400

	PAGE.		PAGE.
Bison.....	100	Bos.....	99
Bison americanus.....	100	Bos americanus.....	100
Bison bison.....	100	Bos bison.....	100
bison. (Bison).....	100	Bos canaliculatus.....	99
bison. (Bos).....	100	Bos gaurus.....	100
bisulcus. (Equus).....	50	Bos gayæus.....	100
bivittata. (Tamandua).....	24	Bos gnou.....	60
bivittatus. (Sciurus).....	117	Bos gour.....	100
blainvillii. (Mormoops).....	526	Bos mindorensis.....	99
Blaria.....	474	Bos moschatus.....	98
Blarina.....	474	Bos pallasi.....	99
Blarina brevicauda.....	474	Bos taurus.....	99
Blarina b. carolinensis.....	476	Boselaphus.....	84
Blarina b. hylophaga.....	476	Boselaphus albipes.....	84
Blarina b. talpoides.....	475	Boselaphus caama.....	55
Blarina costaricensis.....	474	Boselaphus lichtensteini.....	56
Blarina exilipes.....	477	Boselaphus tragocamelus.....	84
Blarina eximius.....	477	bottæ. (Oryctomys).....	314
Blarina floridana.....	477	bottæ. (Thomomys).....	314
Blarina parva.....	476, 477	bougainvillei. (Phalangista).....	12
Blarina pergracilis.....	477	Bovidæ.....	54
Blastocerus.....	46, 50	boylli. (Hesperomys).....	227
blepotis. (Trilatis).....	516	boylli. (Peromyscus).....	227
blythii. (Sciurus).....	120	Brachylagus.....	366
bocourtianus. (Macrotes).....	528	Brachyotus.....	500
bocourtianus. (Otopterus).....	528	brachyotus. (Sciurus).....	108
bohor. (Antilope).....	70	Brachyphylla.....	534
bohor. (Cervicapra).....	70	Brachyphylla cavernarum.....	534, 535
bohor. (Eleotragus).....	70	Brachyphylla nana.....	535
bohor. (Redunca).....	70	Brachysorex.....	474
boiei. (Viverra).....	400	Brachyuromys.....	198
boliviense. (Akodon).....	263	Brachyuromys betsileoensis.....	199
bondæ. (Sciurus s.).....	132	Brachyuromys ramirohitra.....	199
Boocercus.....	85	Bradicebus.....	549
Boocercus e. isaaci.....	85, 86	Bradypodidæ.....	21
boothia. (Sciurus).....	131	Bradypus.....	22
borealis. (Atalapha).....	512	Bradypus crinitus.....	22
borealis. (Geomys).....	316	Bradypus didactylus.....	21
borealis. (Lasiurus).....	512	Bradypus tridactylus.....	22
borealis. (Lepus).....	383	brasiliensis. (Canis).....	408
borealis. (Tamias a.).....	155	brasiliensis. (Ctenomys).....	354
borealis. (Tamias q.).....	155	brasiliensis. (Felis).....	390
borealis. (Vespertilio).....	512	brasiliensis. (Mus).....	244
boria. (Mustela).....	444	brasiliensis. (Nyctinomys).....	523
Boriogale.....	18	brazzæ. (Cercopithecus).....	569
Borioikon.....	306	brevicauda. (Blarina).....	474
borneensis. (Sciurus p.).....	119	brevicauda. (Oryzomys).....	255
borneo. (Pongo).....	577	brevicauda. (Zygodontomys).....	255
borneoensis. (Sciurus p.).....	119	brevicaudata. (Indri).....	541
borucæ. (Sigmodon).....	247	brevicaudatum. (Pachysoma).....	494
borucæ. (Sigmodon h.).....	247	brevicaudatus. (Indris).....	541

	PAGE.		PAGE.
brevicaudum. (Phyllostoma)	531	bulleri. (Pappogeomys)	311
brevicaudus. (Evotomys)	285	bunguranensis. (Ratufa e.)	113
brevicaudus. (Evotomys g.)	285	bunguranensis. (Sciurus e.)	113
brevicaudus. (Onychomys l.)	200	burchelli. (Antilope)	62
brevicaudus. (Sorex)	474	burchelli. (Grimmia)	62
brevicaudus. (Spermophilus c.) . . .	170	Burmeisteria	25
brevicaudus. (Zygodontomys)	255	burrhel. (Ovis)	95
breviceps. (Cephalophus)	60	burrhel. (Pseudois)	95
breviceps. (Geomys)	310	bursarius. (Geomys)	309
breviceps. (Petaurus)	14	bursarius. (Mus)	309
brevimanus. (Chilonatalis)	525	bursarius. (Saccophorus)	309
brevimanus. (Natalus)	525	buselaphus. (Antilope)	54
brevimanus. (Vespertilio)	517	Butragus	58
brevinasus. (Perognathus p.)	334	Butragus corniculatus	59
brevirostris. (Ornithorhynchus) . . .	1		
breweri. (Parascalops)	485	caama. (Acronotus)	55, 56
breweri. (Scalops)	485	caama. (Alcelaphus)	55, 56
brodei. (Sciurus)	112	caama. (Antilope)	55, 56
brookei. (Sciurus)	117	caama. (Boselaphus)	55
brookii. (Sciurus)	117	caama. (Bubalis)	55
browni. (Felis a.)	392	caama. (Bubalus)	55
bruijni. (Uromys)	197	caama. (Cerophorus)	55
bruni. (Kangurus)	19	caama. (Damalis)	55
brunneus. (Peromyscus m.)	203	caballus. (Equus)	102
Bubalidinae	54	Cabassous novemcinctus	27
bubalina. (Antilope)	90	cabezona. (Thomomys)	322
bubalina. (Capricornis)	91	Cachicamus	26
bubalinus. (Nemorhædus)	90	cærulescens. (Antilope)	70
Bubalis	54	cafer. (Dipus)	353
Bubalis caama	55	cafer. (Mus)	353
Bubalis cokei	55	cafer. (Pedetes)	353
Bubalis cokii	55	caffer. (Otocyon)	407
Bubalis jacksoni	56	Calictis	402
Bubalis leucoprymnus	56	californica. (Arvicola)	292
Bubalis lichtensteini	56	californica. (Didelphis)	7
Bubalis swaynei	55	californica. (Didelphys)	7
Bubalis swaynii	55	californica. (Felis r.)	396
Bubalus	55	californica. (Lepus)	381
Bubalus caama	55	californica. (Neotoma)	273
Bubalus mindorensis	99	californicus. (Cervus m.)	49
Bubalus moschatus	99	californicus. (Dipodomys)	325
buckleyi. (Citellus v.)	179	californicus. (Lepus)	381
buckleyi. (Spermophilus)	179	californicus. (Lynx r.)	396
buckleyi. (Spermophilus g.)	179	californicus. (Microtus)	292
buffoni. (Hemicentetes v.)	487	californicus. (Mus)	205
buffoni. (Macrotarsus)	551	californicus. (Myotis)	502, 503
bulbivorum. (Diplostoma)	313	californicus. (Nyctinomus b.)	523
bulbivorus. (Thomomys)	313	californicus. (Odocoileus h.)	49
bulleri. (Geomys)	311	californicus. (Odontocelus h.)	49
bulleri. (Macrotus)	528	californicus. (Perognathus)	343
bulleri. (Otopterus)	528	californicus. (Peromyscus)	205

	PAGE.		PAGE.
californicus. (Scalops).....	482	Camelus.....	36
californicus. (Scapanus).....	482	Camelus arabeus.....	36
californicus. (Sciurus).....	176	Camelus bactrianus.....	36
californicus. (Sciurus h.).....	141	Camelus dromas.....	36
californicus. (Sorex).....	471	Camelus dromedarius.....	36
californicus. (Urocyon c.).....	417	Camelus glama.....	37
californicus. (Ursus h.).....	420	Camelus lacma.....	36
californicus. (Vespertilio).....	502	Camelus pacos.....	37
caliginosus. (Abrothrix).....	263	campbelliæ. (Cephalophus).....	62
caliginosus. (Hesperomys).....	254	campbelliæ. (Grimmia).....	62
Callicebus.....	556	campestris. (Antelope).....	64
Callicebus cuprea.....	557	campestris. (Cervus).....	50
Calliope.....	88	campestris. (Lepus).....	383, 385
Calliope strepsiceros.....	88	campestris. (Neotoma).....	275
Callithrix.....	553, 557	campestris. (Raphicerus).....	64
Callithrix cuprea.....	557	campestris. (Raphicerus).....	64
Callithrix discolor.....	557	campestris. (Zapus h.).....	350
Callithrix jacchus.....	553	Campicola.....	287
Callithrix leucopus.....	553	canadensis. (Arctomys m.).....	183
Callithrix personatus.....	556	canadensis. (Ascomys).....	309
Callitrichidæ.....	553	canadensis. (Castor).....	190
callitrichus. (Cercopithecus).....	568, 569	canadensis. (Cervus).....	43, 44
Callocephalus dimidiatus.....	462	canadensis. (Cervus e.).....	43
Callomys.....	361	canadensis. (Dipus).....	350
Callomys aureus.....	361, 362	canadensis. (Felis).....	394
Callomys viscacia.....	362	canadensis. (Glis).....	183
Callorhinus.....	457	canadensis. (Lutra).....	454
Callorhinus alascanus.....	457	canadensis. (Lynx).....	394
Calosciurus.....	114, 119	canadensis. (Marmota m.).....	183
Calospermophilus.....	160, 168	canadensis. (Mustela).....	444, 446, 454
Callotaria.....	457	canadensis. (Mustela l.).....	454
Callotaria alascana.....	457, 458	canadensis. (Ovis).....	96
Callotaria ursina.....	457	canadensis. (Peromyscus).....	217
Callotis. (Lepus).....	379	canadensis. (Scalops).....	481, 483
Callotis.....	549	canadensis. (Sitomys a.).....	217
Calocephalus.....	461	cancrivora. (Didelphis).....	6
Calocephalus discolor.....	462	cancrivorus. (Canis).....	408
Calogale.....	402	candidus. (Propithecus).....	542
Calomys.....	202, 361	canescens. (Microtus n.).....	291
Calomys aureus.....	361, 362	canicaudus. (Microtus).....	291
Calotragus montanus.....	63	caniceps. (Sciurus).....	108
Calotragus saltatrix.....	63	canicollis. (Echimys).....	355
Calotragus saltianus.....	65	canicollis. (Proechimys).....	356
Caluromys.....	5	canicollis. (Proechinomys).....	355
Caluromys derbianus.....	5	Canidæ.....	405
Caluromys l. pallidus.....	5	canina. (Phalangista).....	13
calvus. (Troglydites).....	579	Caninæ.....	405
Calyptrocebus.....	560	caninus. (Trichosurus).....	13
Camelidæ.....	36	Canis.....	407, 411
camelopardalis. (Cervus).....	52	Canis alopec.....	416
camelopardalis. (Giraffa).....	52	Canis anthus.....	408

	PAGE.		PAGE.
<i>Canis aquilus</i>	408	<i>capensis</i> . (<i>Cavia</i>).....	105
<i>Canis argentatus</i>	413	<i>capensis</i> . (<i>Felis</i>).....	391
<i>Canis azaræ</i>	408	<i>capensis</i> . (<i>Galeopardus</i>).....	391
<i>Canis brasiliensis</i>	408	<i>capensis</i> . (<i>Georhynchus</i>).....	348
<i>Canis cancrivorus</i>	408	<i>capensis</i> . (<i>Graphiurus</i>).....	192
<i>Canis cinereo-argentatus</i>	415	<i>capensis</i> . (<i>Helamys</i>).....	353
<i>Canis cinereo-argenteus</i>	416	<i>capensis</i> . (<i>Hyæna</i>).....	405
<i>Canis clepticus</i>	410	<i>capensis</i> . (<i>Leo</i>).....	392
<i>Canis crocuta</i>	405	<i>capensis</i> . (<i>Mus</i>).....	348
<i>Canis decussatus</i>	413	<i>capensis</i> . (<i>Oryx</i>).....	83
<i>Canis entrerianus</i>	408	<i>capensis</i> . (<i>Procavia</i>).....	106
<i>Canis estor</i>	410	<i>capensis</i> . (<i>Strepsiceros</i>).....	88
<i>Canis familiaris</i>	407	<i>capillamentosa</i> . (<i>Pithecia</i>).....	556
<i>Canis fulvipes</i>	408	<i>capistratus</i> . (<i>Pteropus</i>).....	491
<i>Canis fulvus</i>	413	<i>capistratus</i> . (<i>Sciurus</i>).....	122
<i>Canis gracilis</i>	408	<i>Capra</i>	91
<i>Canis griseus</i>	412, 413, 417	<i>Capra ægagrus</i>	92
<i>Canis himalaicus</i>	416	<i>Capra æthiopica</i>	82
<i>Canis hyæna</i>	404, 405	<i>Capra ammon</i>	98
<i>Canis lalandii</i>	407	<i>Capra arabica</i>	92
<i>Canis latrans</i>	409	<i>Capra caucasica</i>	92
<i>Canis lestes</i>	409	<i>Capra cervicapra</i>	71
<i>Canis lupaster</i>	408	<i>Capra cylindricornis</i>	92
<i>Canis lupus albus</i>	412	<i>Capra dorcas</i>	76
<i>Canis l. griseus</i>	412	<i>Capra falconeri</i>	93
<i>Canis l. occidentalis</i>	411	<i>Capra gazella</i>	83
<i>Canis mearnsi</i>	409	<i>Capra grimmia</i>	62, 64
<i>Canis megalotis</i>	407	<i>Capra hircus</i>	91, 92
<i>Canis melampus</i>	408	<i>Capra ibex</i>	91
<i>Canis melanostomus</i>	408	<i>Capra jemlahica</i>	94
<i>Canis mesomelas</i>	407	<i>Capra jharal</i>	94
<i>Canis mexicanus</i>	411	<i>Capra jubata</i>	82
<i>Canis microtus</i>	415	<i>Capra mengesi</i>	92
<i>Canis nebracensis</i>	409	<i>Capra musmon</i>	98
<i>Canis nebrascensis</i>	409	<i>Capra nubiana</i>	92
<i>Canis occidentalis</i>	411, 413	<i>Capra pygargus</i>	75
<i>Canis ochropus</i>	411	<i>Capra quadrimammis</i>	94
<i>Canis pallidus</i>	409	<i>Capra rupicapra</i>	90
<i>Canis pambasileus</i>	413	<i>Capra sayga</i>	72
<i>Canis pictus</i>	406	<i>Capra sinaitica</i>	92
<i>Canis procyonoides</i>	405, 406	<i>Capra tatarica</i>	72
<i>Canis sinensis</i>	411	<i>capræa</i> . (<i>Capreolus</i>).....	45
<i>Canis variegatus</i>	408	<i>Capreolus</i>	45
<i>Canis velox</i>	415	<i>Capreolus capræa</i>	45
<i>Canis virginianus</i>	416, 417	<i>Capreolus capreolus</i>	45
<i>Canis viverrimus</i>	406	<i>Capreolus europæus</i>	45
<i>Canis vulpes</i>	413, 416	<i>Capreolus pygargus</i>	45
<i>Canis v. montana</i>	416	<i>Capreolus vulgaris</i>	45
<i>canus</i> . (<i>Peromyscus</i>).....	226	<i>capreolus</i> . (<i>Capreolus</i>).....	45
<i>Capella</i>	90	<i>capreolus</i> . (<i>Cervus</i>).....	45
<i>capensis</i> . (<i>Antilope</i>).....	60	<i>Capricornis bubalina</i>	91

	PAGE.		PAGE.
Capricornis milne-edwardsii.....	91	Catoblepas.....	58
Caprios.....	479	Catoblepas gnu.....	60
Capriscus.....	31	Catoblepas gorgon.....	59
Capromyinae.....	356	Catoblepas operculatus.....	60
Capromys.....	356, 357	Catoblepas taurinus.....	59
Capromys fournieri.....	356, 357	catta. (Lemur).....	543, 545
Capromys ingrahami.....	357	catus. (Felis).....	386, 391
Capromys pilorides.....	357	caucæ. (Didelphis k.).....	7
Capromys prehensilis.....	357	caucasica. (Capra).....	92
Capromys quemi.....	357	caudatus. (Cheiromeles).....	521
Caprovis argali.....	98	caudifer. (Nicon).....	532
capucina. (Simia).....	560, 561	caudivolvula. (Viverra).....	429
capucinus. (Cebus).....	561	caurinus. (Eutamias).....	152
capybara. (Hydrochoerus).....	365	caurinus. (Myotis c.).....	503
carcinophaga. (Didelphis).....	6	caurinus. (Tamias).....	152, 153
Cariacus.....	46	cautus. (Microtus).....	296
caribou. (Cervus t.).....	40	cavendishi. (Madoqua).....	67
caribou. (Rangifer).....	40	cavernarum. (Brachyphylla).....	534, 535
Carnivora.....	386	Cavia.....	364
caroli. (Sciurus).....	119	Cavia aperea.....	364
carolii. (Vespertilio).....	504	Cavia capensis.....	105
carolinensis. (Blarina b.).....	476	Cavia cobaya.....	364
carolinensis. (Evotomys).....	285	Cavia leucopyga.....	364
carolinensis. (Sciurus).....	122, 131, 132	Cavia porcellus.....	364
carolinensis. (Sorex).....	476	cavifrons. (Bibos).....	100
carolinensis. (Vespertilio).....	509	cavifrons. (Phalangista).....	12
carolinensis. (Vesperugo).....	508	Caviidæ.....	364
Carollia.....	531	cayopollin. (Didelphys).....	3
carpolegos. (Simia).....	567	Cebidæ.....	554
carpolegus. (Artibeus).....	536	Cebinae.....	559
cascadensis. (Sciurus d.).....	141	Cebus.....	560, 568
castaneiventris. (Sciurus).....	116	Cebus annallatus.....	561
castaneoventris. (Sciurus).....	116	Cebus capucinus.....	561
castaneus. (Cebus).....	561	Cebus castaneus.....	561
castaneus. (Vespertilio).....	515	Cebus flavus.....	560
castanops. (Cratogeomys).....	311	Cebus hypoleucus.....	562
castanops. (Pseudostoma).....	311	Cebus nigrivittatus.....	561
Castor.....	190	Cebus olivaceus.....	561
Castor canadensis.....	190	Cebus pallidus.....	561
Castor c. frondator.....	190	Cebus versicolor.....	561
Castor c. pacificus.....	190	celaeno. (Pteropus).....	490
Castor fiber.....	190, 191	celebensis. (Sus).....	32
Castor moschatus.....	479	Cemas.....	58
Castor zibethicus.....	303	Cemas colus.....	72
Castoridæ.....	190	Cemas dorcas.....	76
Catablepas.....	58	Cemas gnu.....	60
catalinae. (Peromyscus).....	225	Cemas oreotragus.....	63
catalinae. (Rhithrodontomys).....	259	Cemas pygargus.....	58
catalinae. (Urocyon).....	419	Cemas strepsiceros.....	71
catenata. (Felis).....	389	Centetes.....	487
Cateorus.....	509	Centetes ecaudatus.....	487

	PAGE.		PAGE.
Centronycteris.....	519	Cercopithecidae.....	562
Centuriosus.....	31	Cercopithecinae.....	562
Ceonyx.....	11	Cercopithecus.....	568
Cephalolophinae.....	60	Cercopithecus brazzae.....	569
Cephalolophus.....	60	Cercopithecus callitrichus.....	568, 569
Cephalolophus abyssinicus.....	61	Cercopithecus cephus.....	569
Cephalolophus coronatus.....	61	Cercopithecus erxlebeni.....	569
Cephalolophus dorsalis.....	60	Cercopithecus fuliginosus.....	568
Cephalolophus grimmia.....	62	Cercopithecus larvatus.....	570, 571
Cephalolophus melanorheus.....	61	Cercopithecus martini.....	569
Cephalolophus m. sundevalli.....	61	Cercopithecus mona.....	568
Cephalolophus monticola.....	62	Cercopithecus neglectus.....	569
cephalolophus. (Elaphodus).....	39	Cercopithecus nictitans.....	569
Cephalopachus.....	551	Cercoptenus.....	15
Cephalophorus.....	60	Cerophorus.....	55, 60
Cephalophus.....	60	Cerophorus caama.....	55
Cephalophus abyssinicus.....	61, 62	Cerophorus eleotragus.....	70
Cephalophus anchietæ.....	61	Cerophorus euchore.....	75
Cephalophus badius.....	60	Cerophorus grimmia.....	61
Cephalophus breviceps.....	60	Cerophorus kevela.....	76
Cephalophus madoqua.....	62	Cerophorus saltiana.....	64, 65
Cephalophus coronatus.....	61	Cervaria.....	386, 394
Cephalophus dorsalis.....	60	Cervequus.....	50
Cephalophus grimmia.....	62	cervicalis. (Sciurus).....	129
Cephalophus g. flavescens.....	62	cervicalis. (Sciurus p.).....	129
Cephalophus hemprichianus.....	66	cervicalis. (Sciurus w.).....	129
Cephalophus madoqua.....	62	Cervicapra.....	70
Cephalophus maxwelli.....	61	Cervicapra arundinum.....	70
Cephalophus melanorheus.....	61	Cervicapra bezoartica.....	71
Cephalophus m. sundevalli.....	61	Cervicapra bohor.....	70
Cephalophus mergens.....	62	Cervicapra chanleri.....	71
Cephalophus monticola.....	62	Cervicapra clarkei.....	79
Cephalophus platyotis.....	62	Cervicapra r. wardi.....	71
Cephalophus pygmæus sundevalli.....	61	cervicapra. (Antilope).....	70, 71
cephalophus. (Elaphodus).....	39	cervicapra. (Capra).....	71
cephalopterus. (Presbytis).....	573	Cervicaprinae.....	67
Cephalotes.....	494	Cervidae.....	38
Cephalotes peronii.....	494	cervina. (Ovis).....	96
cephalotes. (Harpyia).....	495	Cervinae.....	38
cephalotes. (Nyctimene).....	494	Cervulus.....	38
cephalotes. (Vespertilio).....	494	Cervulus moschatus.....	39
cephus. (Cercopithecus).....	569	Cervus.....	42
cephus. (Simia).....	519	Cervus albicornis.....	42
Ceratorhinus.....	104	Cervus alces.....	41
Ceratorhinus sumatranus.....	105	Cervus antiensis.....	52
Ceratotherium.....	104	Cervus aristotelis.....	43
Cercocebus.....	568	Cervus aureus.....	39
Cercocebus fuliginosus.....	568	Cervus azaræ.....	50
Cercolabes.....	360	Cervus bezoarticus.....	50
Cercoleptes.....	429	Cervus camelopardalis.....	52
Cercoleptes megalotus.....	430	Cervus campestris.....	50

	PAGE.		PAGE.
<i>Cervus canadensis</i>	43, 44	<i>Chætodipus</i>	331, 336
<i>Cervus c. occidentalis</i>	44	<i>Chætrophactus</i>	25, 26
<i>Cervus capreolus</i>	45	<i>chalmersi</i> . (<i>Dorcopsis</i>)	17
<i>Cervus comosus</i>	50	<i>chanleri</i> . (<i>Cervicapra</i>)	71
<i>Cervus culionensis</i>	43	<i>chapmani</i> . (<i>Dipodomys</i>)	330
<i>Cervus dama</i>	44	<i>chapmani</i> . (<i>Equus</i>)	102
<i>Cervus d. americanus</i>	45, 46	<i>chapmani</i> . (<i>Lepus f.</i>)	370
<i>Cervus dybowskii</i>	43	<i>chapmani</i> . (<i>Marmosa</i>)	4
<i>Cervus elaphus</i>	42	<i>chapmani</i> . (<i>Oryzomys</i>)	251
<i>Cervus e. canadensis</i>	43	<i>chapmani</i> . (<i>Perodipus</i>)	330
<i>Cervus guettardi</i>	40	<i>chapmani</i> . (<i>Sciurus</i>)	121
<i>Cervus hastalis</i>	40	<i>chati</i> . (<i>Felis</i>)	390
<i>Cervus hemionus</i>	49	<i>Chaus servalina</i>	391
<i>Cervus heterocervus</i>	43	<i>Cheirogaleus</i>	548
<i>Cervus hortulorum</i>	43	<i>Cheirogaleus coquereli</i>	542
<i>Cervus leschenaultii</i>	43	<i>Cheirogaleus griseus</i>	547
<i>Cervus leucogaster</i>	50	<i>Cheirogaleus major</i>	548
<i>Cervus lobatus</i>	42	<i>Cheirogaleus smithii</i>	548
<i>Cervus macrotis</i>	49	<i>Cheirogaleus typicus</i>	548
<i>Cervus m. californicus</i>	49	<i>Cheiromeles</i>	521
<i>Cervus m. columbiana</i>	48	<i>Cheiromeles caudatus</i>	521
<i>Cervus melas</i>	39	<i>Cheiromeles torquatus</i>	521
<i>Cervus mexicanus</i>	46	<i>Cheiromys</i>	552
<i>Cervus muntjak</i>	38	<i>Cheiromys madagascariensis</i>	552
<i>Cervus nemorivagus</i>	52	<i>Cheiron</i>	575
<i>Cervus niger</i>	43	<i>Cheiropteruges</i>	496
<i>Cervus nigricans</i>	43	<i>cheiropus</i> . (<i>Dysopes</i>)	521
<i>Cervus occidentalis</i>	44	<i>cherriei</i> . (<i>Geomys</i>)	313
<i>Cervus philippinus</i>	43	<i>cherriei</i> . (<i>Oryzomys</i>)	254
<i>Cervus platyceros</i>	45	<i>cherrii</i> . (<i>Macrogeomys</i>)	313
<i>Cervus pseudaxis</i>	43	<i>cherrii</i> . (<i>Zygodontomys</i>)	254
<i>Cervus pygargus</i>	45	<i>chilensis</i> . (<i>Lepus</i>)	361, 362
<i>Cervus ratwa</i>	39	<i>chilensis</i> . (<i>Viscacia</i>)	362
<i>Cervus roosevelti</i>	44	<i>Chilonatalis</i>	525
<i>Cervus sartorii</i>	51	<i>Chilonatalis brevimanus</i>	525
<i>Cervus sing-sing</i>	67	<i>Chilonatalus</i>	525
<i>Cervus sterrii</i>	43	<i>Chilonycteris</i>	525
<i>Cervus strongloceros</i>	44	<i>Chilonycteris d. fulvus</i>	526
<i>Cervus tarandus</i>	40	<i>Chilonycteris macleayii</i>	525
<i>Cervus t. arctica</i>	41	<i>Chilonycteris personata</i>	525
<i>Cervus t. caribou</i>	40	<i>Chilotus</i>	286, 301
<i>Cervus t. schottini</i>	40	<i>chimpanse</i> . (<i>Satyrs</i>)	579
<i>Cervus t. sylvestris</i>	40	<i>chimpanse</i> . (<i>Simia</i>)	579
<i>Cervus unicolor</i>	42	<i>chimpanse</i> . (<i>Simia p.</i>)	579
<i>Cervus vaginalis</i>	39	<i>Chincha</i>	432
<i>Cervus virginianus</i>	46	<i>Chincha platyrhina</i>	435
<i>Cervus v. couesi</i>	46	<i>Chinchilla</i>	362
<i>Cervus wapiti</i>	44	<i>chinensis</i> . (<i>Felis</i>)	390
<i>ceylonicus</i> . (<i>Sciurus</i>)	113	<i>chinensis</i> . (<i>Leopardus</i>)	388, 390
<i>Chæropithecus</i>	562	<i>chinensis</i> . (<i>Panthera</i>)	391
<i>Chæropithecus leucophæus</i>	564	<i>chiriquensis</i> . (<i>Potos f.</i>)	429

	PAGE.		PAGE.
chiriquensis. (<i>Sigmodon h.</i>).....	248	cinerascens. (<i>Tamias</i>).....	169
chiriquinus. (<i>Proechinomys c.</i>)...	356	cinerea. (<i>Antilope</i>).....	70, 91
Chirogale melanotis.....	548	cinerea. (<i>Didelphys</i>).....	4
Chirogaleus.....	548	cinerea. (<i>Edostoma</i>).....	540
Chirogaleus melanotis.....	548	cinerea. (<i>Geomys</i>).....	309
Chiropotes.....	556	cinerea. (<i>Marmosa</i>).....	4
Chiroptera.....	490	cinerea. (<i>Mus</i>).....	277
chiru. (<i>Antilope</i>).....	73	cinerea. (<i>Neotoma</i>).....	277
Chiruromys.....	197, 198	cinerea. (<i>Teonoma</i>).....	277
Chlamydomorphinæ.....	25	cinereicollis. (<i>Tamias</i>).....	153
Chlamydomorphus.....	25	cinereo-argentatus. (<i>Canis</i>).....	415
Chlamydomorphus truncatus.....	25	cinereo-argenteus. (<i>Canis</i>).....	416
Chlamyphorus.....	25	cinereo-argenteus. (<i>Urocyon</i>)	416, 417
Chlamyphorus truncatus.....	25	cinereum. (<i>Dermanura</i>).....	539
chlorus. (<i>Citellus</i>).....	165	cinereus. (<i>Lasiurus</i>).....	513
Chæronycteris.....	533	cinereus. (<i>Lipurus</i>).....	15
Chæronycteris mexicana.....	533	cinereus. (<i>Micoureus</i>).....	4
choeropithecus. (<i>Hamadryas</i>)....	565	cinereus. (<i>Morodactylus</i>).....	15
Choiropithecus.....	562	cinereus. (<i>Nemorhædus</i>).....	91
Choiropotamus.....	32	cinereus. (<i>Nycticebus</i>).....	550
Choleopus.....	21	cinereus. (<i>Phascolarctus</i>).....	15
Choleopus hoffmanni.....	21	cinereus. (<i>Sciurus</i>).....	125, 133
chora. (<i>Antilope</i>).....	88	cinereus. (<i>Sorex</i>).....	477
choras. (<i>Cynocephalus</i>).....	562	cinereus. (<i>Vespertilio</i>).....	513
christii. (<i>Gazella</i>).....	77	cinnamomea. (<i>Arvicola</i>).....	299
christii. (<i>Plecotus</i>).....	517	cinnamomea. (<i>Mormops b.</i>)....	526
Chrotopterusauritus.....	528	cinnamomea. (<i>Neotoma</i>).....	281
chrysodeirus. (<i>Citellus</i>).....	169	cinnamomea. (<i>Teonoma</i>).....	281
chrysodeirus. (<i>Spermophilus</i>)....	169	cinnamomeum. (<i>Lobostoma</i>)....	526
chrysodeirus. (<i>Tamias</i>).....	169	cinnamomeus. (<i>Citellus l.</i>).....	162
chrysogaster. (<i>Galidictis</i>).....	445	cinnamomeus. (<i>Spermophilus l.</i>)..	162
chrysogaster. (<i>Hydromys</i>).....	192	cinnamomeus. (<i>Tamias l.</i>).....	162
chrysogaster. (<i>Moschus</i>).....	38	cinnei. (<i>Rhynchocyon</i>).....	465
chrysomelas. (<i>Oryzomys</i>).....	254	Citellus.....	160
chrysomelas. (<i>Semnopithecus</i>)....	572	Citellus annulatus.....	179
chrysomelas. (<i>Zygodontomys</i>)....	254	Citellus armatus.....	173
Chrysothrix.....	558	Citellus barrowensis.....	172
Chrysothrix ærstedii.....	559	Citellus beldingi.....	174
Chrysothrix sciurea.....	558	Citellus chlorus.....	165
chrysotis. (<i>Reithrodontomys</i>)....	259	Citellus chrysodeirus.....	169
chrysotis. (<i>Rhithrodontomys</i>)....	259	Citellus c. bernardinus.....	170, 171
chrysuros. (<i>Hystrix</i>).....	354	Citellus cinerascens.....	169
chrysurus. (<i>Mycetes</i>).....	554	Citellus columbianus.....	172
chrysurus. (<i>Myoxus</i>).....	354	Citellus elegans.....	174
cicognani. (<i>Putorius</i>).....	448	Citellus eremonomus.....	164
cicognanii. (<i>Mustela</i>).....	448	Citellus franklini.....	168
ciliatus. (<i>Dasypus</i>).....	25	Citellus harrisi.....	160
ciliatus. (<i>Zaedyus</i>).....	25	Citellus lateralis.....	168
cinerascens. (<i>Citellus</i>).....	169	Citellus leucurus.....	161
cinerascens. (<i>Lepus</i>).....	377	Citellus l. cinnamomeus.....	162
cinerascens. (<i>Spermophilus</i>)....	169	Citellus l. peninsulæ.....	162

	PAGE.
<i>Citellus mexicanus</i>	165
<i>Citellus m. parvidens</i>	165
<i>Citellus nelsoni</i>	163
<i>Citellus nesioticus</i>	179
<i>Citellus oregonus</i>	175
<i>Citellus parryi</i>	171
<i>Citellus p. kadiacensis</i>	171, 172
<i>Citellus richardsoni</i>	173
<i>Citellus s. macrospilotus</i>	163
<i>Citellus tereticaudus</i>	164
<i>Citellus t. mohavensis</i>	165
<i>Citellus townsendi</i>	173
<i>Citellus tredecimlineatus</i>	166
<i>Citellus t. olivaceus</i>	167
<i>Citellus t. pallidus</i>	167
<i>Citellus t. parvus</i>	167
<i>Citellus t. texensis</i>	167, 168
<i>Citellus variegatus</i>	175
<i>Citellus v. beecheyi</i>	176
<i>Citellus v. buckleyi</i>	179
<i>Citellus v. douglasi</i>	179
<i>Citellus v. fisheri</i>	177
<i>Citellus v. grammurus</i>	175, 176
<i>Citellus vinnulus</i>	162
<i>Citellus wortmani</i>	171
<i>citellus</i> . (Mus).....	160
<i>Citillus</i>	160
<i>Cladobates</i>	464
<i>clarkei</i> . (Ammodorcas).....	79
<i>clarkei</i> . (Cervicapra).....	79
<i>clarkii</i> . (Ammodorcas).....	79
<i>clarkii</i> . (Geomys).....	311
<i>clepticus</i> . (Canis).....	410
<i>cnecus</i> . (Perognathus).....	336
<i>cnemophila</i> . (Neotoma).....	267
<i>cnemophila</i> . (Neotoma f.).....	267
<i>Cnephæus</i>	509
<i>Cnephaiophilus</i>	505
<i>Coassus</i>	51
<i>cobaya</i> . (Cavia).....	364
<i>Cobus</i>	67
<i>Cobus defassa</i>	68
<i>Cobus ellipsiprymnus</i>	67
<i>Cobus leucotis</i>	69
<i>Cobus maria</i>	69
<i>Cobus penricei</i>	69
<i>Cobus penricii</i>	69
<i>Cobus unctuosus</i>	67, 68
<i>Cobus vardoni</i>	69
<i>Ceologenus</i>	364
<i>Coendou</i>	359

	PAGE.
<i>Coendu</i>	359
<i>Coendu mexicanum</i>	360
<i>Cœscoes</i>	11
<i>Cœscoes amboinensis</i>	11
<i>coibæ</i> . (Dasyprocta).....	363
<i>coibensis</i> . (Alouatta p.).....	556
<i>cokei</i> . (Alcelaphus).....	55
<i>cokei</i> . (Bubalis).....	55
<i>cokii</i> . (Bubalis).....	55
<i>colimæ</i> . (Sigmodon).....	246
<i>collaris</i> . (Lemur).....	544
<i>collaris</i> . (Pteropus).....	493
<i>colliæi</i> . (Sciurus).....	123, 129
<i>Colobolus</i>	573
<i>Colobotis</i>	160, 171
<i>Colobus</i>	573
<i>Colobus angolensis</i>	575
<i>Colobus guereza</i>	574
<i>columbiana</i> . (Cervus m.).....	48
<i>columbiana</i> . (Neotoma c.).....	279
<i>columbiana</i> . (Teonoma c.).....	279
<i>columbianus</i> . (Arctomys).....	172
<i>columbianus</i> . (Citellus).....	172
<i>columbianus</i> . (Odocoileus).....	48
<i>columbianus</i> . (Odontocœlus).....	48
<i>columbianus</i> . (Oreamnos m.).....	94
<i>columbianus</i> . (Oreamnos m.).....	94
<i>columbianus</i> . (Spermophilus).....	172
<i>Colus</i>	72
<i>colus</i> . (Cemas).....	72
<i>Comastes</i>	500
<i>comosus</i> . (Cervus).....	50
<i>concinus</i> . (Vespertilio).....	501
<i>concolor</i> . (Erinaceus).....	466
<i>concolor</i> . (Felis).....	393
<i>concolor</i> . (Hylobates).....	575
<i>conditi</i> . (Perognathus).....	337
<i>Condylura</i>	480
<i>Condylura cristata</i>	481
<i>Condylura macroura</i>	481
<i>Condylura prasinata</i>	481
<i>Conepatus</i>	437
<i>Conepatus humboldtii</i>	437
<i>Conepatus leuconotus</i>	437
<i>Conepatus m. mearnsi</i>	437
<i>Conepatus tropicalis</i>	438
<i>connectens</i> . (Lepus f.).....	370
<i>Connochaetes</i>	58
<i>Connochaetes albojubatus</i>	59, 60
<i>Connochaetes gnu</i>	60
<i>Connochaetes gorgon</i>	59

	PAGE.		PAGE.
<i>Connochætes taurina</i>	59	<i>Cricetus</i>	198
<i>Connochætes taurinus</i>	59	<i>Cricetus cricetus</i>	198
<i>Connochætes t. albojubatus</i>	59	<i>Cricetus frumentarius</i>	198
<i>consobrinus</i> . (<i>Tamias m.</i>).....	156	<i>Cricetus myoides</i>	210
<i>constrictus</i> . (<i>Microtus c.</i>).....	294	<i>Cricetus talpoides</i>	316
<i>cookei</i> . (<i>Alcelaphus</i>).....	55	<i>Cricetus vulgaris</i>	198
<i>cooki</i> . (<i>Phalangista</i>).....	12	<i>cricetus</i> . (<i>Cricetus</i>).....	198
<i>cookii</i> . (<i>Rosmarus</i>).....	459	<i>cricetus</i> . (<i>Mus</i>).....	198
<i>cooperi</i> . (<i>Sorex</i>).....	467	<i>crinitus</i> . (<i>Bradypus</i>).....	22
<i>cooperi</i> . (<i>Synaptomys</i>).....	305	<i>crispus</i> . (<i>Myrmecophaga</i>).....	23
<i>cooperi</i> . (<i>Tamias</i>).....	144	<i>crispus</i> . (<i>Ornithorhynchus</i>).....	1
<i>coquereli</i> . (<i>Propithecus v.</i>).....	542	<i>cristata</i> . (<i>Condylura</i>).....	481
<i>corinna</i> . (<i>Antilope</i>).....	76	<i>cristata</i> . (<i>Hystrix</i>).....	361
<i>corniculatus</i> . (<i>Butragus</i>).....	59	<i>cristata</i> . (<i>Viverra</i>).....	404
<i>cornutus</i> . (<i>Vespertilio</i>).....	517	<i>cristatus</i> . (<i>Macacus</i>).....	567
<i>coronata</i> . (<i>Sylvicapra</i>).....	61	<i>cristatus</i> . (<i>Presbytis</i>).....	572
<i>coronatus</i> . (<i>Cephalolophus</i>).....	61	<i>cristatus</i> . (<i>Proteles</i>).....	404
<i>coronatus</i> . (<i>Cephalophus</i>).....	61	<i>cristatus</i> . (<i>Semnopithecus</i>).....	572
<i>coronatus</i> . (<i>Propithecus v.</i>).....	542	<i>cristatus</i> . (<i>Simia</i>).....	572
<i>coryi</i> . (<i>Felis</i>).....	393	<i>cristatus</i> . (<i>Sorex</i>).....	480, 481
<i>Corynorhinus</i>	517	<i>Crocidura</i>	478
<i>Corynorhinus m. townsendi</i>	517	<i>Crocidura aranea</i>	478
<i>Corypithecus</i>	571	<i>Crocidura madagascariensis</i>	479
<i>costaricensis</i> . (<i>Blarina</i>).....	474	<i>Crocidura russulus</i>	478
<i>costaricensis</i> . (<i>Oryzomys</i>).....	253	<i>Crocidurinae</i>	478
<i>costaricensis</i> . (<i>Reithrodontomys</i>).....	261	<i>crocata</i> . (<i>Canis</i>).....	405
<i>costaricensis</i> . (<i>Rhithrodontomys</i>).....	261	<i>crocata</i> . (<i>Hyæna</i>).....	405
<i>couang</i> . (<i>Nycticebus</i>).....	550	<i>Crocata maculata</i>	405
<i>couang</i> . (<i>Tardigradus</i>).....	550	<i>crossii</i> . (<i>Paradoxurus</i>).....	400
<i>couchii</i> . (<i>Spermophilus</i>).....	175	<i>crossii</i> . (<i>Rhinoceros</i>).....	105
<i>couesi</i> . (<i>Cervus v.</i>).....	46	<i>Crossopus</i>	478
<i>couesi</i> . (<i>Odocoileus a.</i>).....	46	<i>cruciger</i> . (<i>Presbytis f.</i>).....	572
<i>couesi</i> . (<i>Odontocelus a.</i>).....	46	<i>cruciger</i> . (<i>Semnopithecus</i>).....	572
<i>cougar</i> . (<i>Felis</i>).....	393	<i>Cryptophractus</i>	25
<i>cowani</i> . (<i>Microgale</i>).....	488	<i>Cryptoprocta</i>	397
<i>coxii</i> . (<i>Phoca</i>).....	460	<i>Cryptoprocta ferox</i>	397
<i>coypus</i> . (<i>Mus</i>).....	356	<i>Cryptoprocta typicus</i>	398
<i>coypus</i> . (<i>Myocastor</i>).....	356	<i>Cryptoproctinae</i>	397
<i>crassipinis</i> . (<i>Hystrix</i>).....	361	<i>Cryptotis</i>	474, 476
<i>Cratogeomys</i>	310	<i>crypturus</i> . (<i>Epomophorus</i>).....	490
<i>Cratogeomys castanops</i>	311	<i>Ctenodactylidae</i>	354
<i>Cratogeomys estor</i>	311	<i>Ctenomys</i>	354
<i>Cratogeomys perotensis</i>	310	<i>Ctenomys brasiliensis</i>	354
<i>crawshayi</i> . (<i>Equus b.</i>).....	103	<i>Ctenomys opimus</i>	354
<i>Creagroceros</i>	51	<i>cubanus</i> . (<i>Monophyllus</i>).....	534
<i>cremnobates</i> . (<i>Ovis c.</i>).....	96	<i>cubanus</i> . (<i>Solenodon</i>).....	486
<i>crepuscularis</i> . (<i>Nycticea</i>).....	514	<i>cucullatus</i> . (<i>Semnopithecus</i>).....	573
<i>Cricetinae</i>	198	<i>Cuica</i>	3
<i>Cricetodipus</i>	331	<i>culionensis</i> . (<i>Cervus</i>).....	43
<i>Cricetodipus flavus</i>	331	<i>Cuniculus</i>	306
<i>Cricetodipus parvus</i>	334	<i>cuniculus</i> . (<i>Hypsiprymnus</i>).....	16

	PAGE.		PAGE.
cuniculus. (<i>Lepus</i>).....	378	<i>Cynomys gunnisoni</i>	181
cuniculus. (<i>Orthogeomys</i>).....	312	<i>Cynomys ludovicianus</i>	180
cuprea. (<i>Callicebus</i>).....	557	<i>Cynomys pyrrhotrichus</i>	181
cuprea. (<i>Callithrix</i>).....	557	<i>Cynomys socialis</i>	180
cupreata. (<i>Talpa</i>).....	483	<i>Cynonycteris</i>	493
curtata. (<i>Arvicola</i>).....	299	<i>Cynonycteris amplexicaudata</i>	493
curtatus. (<i>Arvicola a.</i>).....	299	<i>Cynonycteris dupreana</i>	493
curtatus. (<i>Microtus</i>).....	299	<i>Cynonycteris infuscata</i>	493
Cuscus.....	11	<i>Cynopterus</i>	493
<i>Cuscus vestitus</i>	12	<i>Cynopterus albiventer</i>	495
Cutia.....	363	<i>Cynopterus horsfieldii</i>	494
cuvieri. (<i>Acanthion</i>).....	361	<i>Cynopterus lucasii</i>	495
cuvieri. (<i>Gazella</i>).....	77	<i>Cynopterus marginatus</i>	493
cuvieri. (<i>Lagotis</i>).....	362	<i>Cynopterus sphinx</i>	493
cuvieri. (<i>Phalangista</i>).....	12	<i>Cystophora falklandica</i>	460
Cyclopes.....	22	<i>Cystophora kerguelensis</i>	460
<i>Cyclopes dorsalis</i>	23	<i>Cystophora proboscidea</i>	460
cyclops. (<i>Hipposiderus</i>).....	498	<i>Cystophorinae</i>	459
cyclops. (<i>Phyllorhina</i>).....	498		
Cyclothurus.....	23	dabagala. (<i>Xerus</i>).....	109
<i>Cyclothurus dorsalis</i>	23	<i>Dactyloceros</i>	44
cylicornis. (<i>Capra</i>).....	92	<i>Dactylopsila</i>	14
cylicornis. (<i>Ovis</i>).....	92	<i>Dactylopsila albertsi</i>	14
<i>Cynailurus</i>	396	<i>Dactylopsila trivirgata</i>	14
<i>Cynailurus jubatus</i>	396	<i>dakotensis</i> . (<i>Sciurus h.</i>).....	138
<i>Cynailurus venaticus</i>	397	dalli. (<i>Ovis</i>).....	97
<i>Cynictis</i>	404	dalli. (<i>Ovis m.</i>).....	97
<i>Cynictis lepturus</i>	404	<i>Dama</i>	44, 75
<i>Cynictis ogilbyi</i>	404	<i>Dama rothschildi</i>	48
<i>Cynictis penicillatus</i>	404	<i>Dama vulgaris</i>	45
<i>Cynictis steedmanni</i>	404	<i>dama</i> . (<i>Cervus</i>).....	44
<i>Cynocephalidæ</i>	464	<i>Damalis</i>	55, 56
<i>Cynocephalus</i>	464, 562	<i>Damalis albifrons</i>	58
<i>Cynocephalus babouin</i>	566	<i>Damalis caama</i>	55
<i>Cynocephalus choras</i>	562	<i>Damalis jimela</i>	58
<i>Cynocephalus doguera</i>	566	<i>Damalis lunata</i>	56
<i>Cynocephalus hamadryas</i>	565	<i>Damalis senegalensis</i>	58
<i>Cynocephalus leucophæus</i>	564	<i>Damaliscus</i>	56
<i>Cynocephalus papio</i>	562	<i>Damaliscus albifrons</i>	58
<i>Cynocephalus philippinensis</i>	464	<i>Damaliscus jimela</i>	58
<i>Cynocephalus porcarius</i>	566	<i>Damaliscus lunatus</i>	56, 57
<i>Cynocephalus sphinx</i>	562	<i>Damaliscus pygargus</i>	58
<i>Cynocephalus volans</i>	464	<i>damanus</i> . (<i>Propithecus</i>).....	542
<i>Cynocephalus wagleri</i>	565	<i>damarensis</i> . (<i>Madoqua</i>).....	66
<i>Cynofelis</i>	396	<i>damarensis</i> . (<i>Neotragus</i>).....	66
<i>Cynofelis jubata</i>	396	<i>damonis</i> . (<i>Propithecus</i>).....	542
<i>cynomolgus</i> . (<i>Simia</i>).....	567	<i>Danis</i>	420
<i>Cynomyonax</i>	446, 448	<i>Dasynotus</i>	344
<i>Cynomys</i>	180	<i>Dasyphractus</i>	25
<i>Cynomys arizonensis</i>	181	<i>Dasypodidæ</i>	25
<i>Cynomys grisea</i>	180	<i>Dasyprocta</i>	362

	PAGE.		PAGE.
<i>Dasyprocta aguti</i>	363, 364	deserti. (<i>Dipodomys</i>)	326
<i>Dasyprocta azaræ</i>	363	deserti. (<i>Reithrodontomys m.</i>)	257
<i>Dasyprocta coibæ</i>	363	deserticola. (<i>Lepus t.</i>)	380
<i>Dasyprocta mexicana</i>	363	deserticola. (<i>Peromyscus l.</i>)	210
<i>Dasyprocta punctata</i>	363	deserticola. (<i>Peromyscus t.</i>)	210
<i>Dasypterus</i>	514	deserticolus. (<i>Hesperomys l.</i>)	210
<i>Dasypterus e. panamensis</i>	514	deserticolus. (<i>Peromyscus a.</i>)	210
<i>Dasypus</i>	25	desertorum. (<i>Neotoma</i>)	271
<i>Dasypus ciliatus</i>	25	<i>Desmana</i>	479
<i>Dasypus longicaudus</i>	27	<i>Desmana moschata</i>	479
<i>Dasypus m. fenestratus</i>	27	<i>Desmaninæ</i>	479
<i>Dasypus minutus</i>	25	<i>desmaresti</i> . (<i>Phoca</i>)	463
<i>Dasypus novemcinctus</i>	26	<i>Desmodon</i>	540
<i>Dasypus octo-cinctus</i>	26	<i>Desmodon rotundum</i>	540
<i>Dasypus patagonicus</i>	25	<i>Desmodontinæ</i>	540
<i>Dasypus villosus</i>	26	<i>Desmodus</i>	540
<i>Dasyuridæ</i>	9	<i>Desmodus d'orbigny</i>	540
<i>Dasyurus</i>	9	<i>Desmodus fuscus</i>	540
<i>Dasyurus macrourus</i>	10	<i>Desmodus murinus</i>	540
<i>Dasyurus maculatus</i>	9, 10	<i>Desmodus rotundus</i>	540
<i>Dasyurus ursinus</i>	9, 10	<i>Desmodus rufus</i>	540
<i>Daubentonia</i>	552	<i>devillei</i> . (<i>Midas</i>)	554
<i>Daubentonia madagascariensis</i>	552	<i>Diana</i>	568
<i>daubentonii</i> . (<i>Nycteris</i>)	499	<i>Diabolus</i>	9
<i>daubentonii</i> . (<i>Sorex</i>)	478	<i>Diabolus ursinus</i>	9
<i>Daubentoniidæ</i>	552	<i>diadema</i> . (<i>Habrocebus</i>)	541
<i>davyi</i> . (<i>Dermonotus</i>)	526	<i>diadema</i> . (<i>Hipposiderus</i>)	498
<i>davyi</i> . (<i>Pteronotus</i>)	526	<i>diadema</i> . (<i>Propithecus</i>)	541
<i>dawsoni</i> . (<i>Evotomys</i>)	283	<i>diadema</i> . (<i>Rhinolophus</i>)	498
<i>dealbatus</i> . (<i>Erinaceus</i>)	466	<i>diadematus</i> . (<i>Erinaceus</i>)	466
<i>deckeni</i> . (<i>Propithecus</i>)	542	<i>Diademia</i>	568
<i>deckeni</i> . (<i>Propithecus v.</i>)	542	<i>diardii</i> . (<i>Pachysoma</i>)	494
<i>decula</i> . (<i>Tragelaphus</i>)	85	<i>dickinsoni</i> . (<i>Reithrodontomys h.</i>)	256
<i>decumanus</i> . (<i>Mus</i>)	194	<i>dickinsoni</i> . (<i>Reithrodontomys l.</i>)	256
<i>decussatus</i> . (<i>Canis</i>)	413	<i>dickinsoni</i> . (<i>Rhithrodontomys l.</i>)	256
<i>defassa</i> . (<i>Cobus</i>)	68	<i>Dicotyles</i>	34, 35
<i>dekayi</i> . (<i>Arvicola</i>)	287	<i>Dicotyles angulatus</i>	34
<i>dekayi</i> . (<i>Sorex</i>)	474	<i>Dicotyles labiatus</i>	35
<i>demidoffii</i> . (<i>Galago</i>)	549	<i>Dicotyles tajacu</i>	34
<i>Dendrohyrax</i>	106	<i>Dicranocerus</i>	53
<i>deppei</i> . (<i>Sciurus</i>)	114	<i>Dicroceras</i>	38
<i>deppii</i> . (<i>Sciurus</i>)	114	<i>Dicroceros</i>	38
<i>derbianus</i> . (<i>Caluromys</i>)	5	<i>Dicrocerus</i>	38
<i>derbyanus</i> . (<i>Paradoxurus</i>)	400	<i>Dicrostonyx</i>	306
<i>Dermanura</i>	539	<i>Dicrostonyx h. alascensis</i>	307
<i>Dermanura cinereum</i>	539	<i>Dicrostonyx h. nelsoni</i>	306, 307
<i>Dermanura jucundum</i>	539	<i>Dicrostonyx nelsoni</i>	306
<i>Dermipus anatinus</i>	1	<i>Didactyla</i>	23
<i>Dermonotus</i>	526	<i>didactyla</i> . (<i>Myrmecophaga</i>)	22
<i>Dermonotus davyi</i>	526	<i>Didactyles</i>	22
<i>Dermonotus d. fulvus</i>	526	<i>didactylus</i> . (<i>Bradypus</i>)	21

	PAGE.		PAGE.
<i>Didelphis</i>	6	<i>Didelphys ursina</i>	9
<i>Didelphis californica</i>	7	<i>Didelphys virginiana</i>	8
<i>Didelphis cancrivora</i>	6	<i>Didelphys waterhousii</i>	4
<i>Didelphis carcinophaga</i>	6	<i>Dieba</i>	407
<i>Didelphis dorsigera</i>	3	<i>Dieba anthus</i>	408
<i>Didelphis guianensis</i>	3	<i>difficilis</i> . (<i>Peromyscus</i>).....	236
<i>Didelphis impavida</i>	3	<i>difficilis</i> . (<i>Reithrodontomys</i>)....	260
<i>Didelphis indica</i>	11	<i>difficilis</i> . (<i>Rhithrodontomys</i>)....	260
<i>Didelphis karkinophaga</i>	6	<i>difficilis</i> . (<i>Vesperimus</i>).....	236
<i>Didelphis k. caucæ</i>	7	<i>Dihoplus</i>	105
<i>Didelphis kenguru</i>	19	<i>dilatus</i> . (<i>Scapanus</i>).....	482
<i>Didelphis lemurlina</i>	12	<i>dimidiatus</i> . (<i>Callocephalus</i>).....	462
<i>Didelphis macroura</i>	13	<i>Dinochoerus</i>	32
<i>Didelphis marsupialis</i>	6	<i>Dinops</i>	523
<i>Didelphis m. etensis</i>	7	<i>Dionyx</i>	22
<i>Didelphis m. tabascensis</i>	8	<i>Diplostoma</i>	308, 313
<i>Didelphis mesamericana</i>	7	<i>Diplostoma bulbivorum</i>	313
<i>Didelphis molucca</i>	11	<i>Diplostoma fusca</i>	309
<i>Didelphis murina</i>	3, 4, 16	<i>Dipodomysinae</i>	322
<i>Didelphis opossum</i>	6	<i>Dipodomys</i>	322
<i>Didelphis orientalis</i>	11	<i>Dipodomys agilis</i>	327
<i>Didelphis philander</i>	5, 6	<i>Dipodomys ambiguus</i>	323
<i>Didelphis potori</i>	16	<i>Dipodomys californicus</i>	325
<i>Didelphis pygmæa</i>	15	<i>Dipodomys chapmani</i>	330
<i>Didelphis quica</i>	6	<i>Dipodomys deserti</i>	326
<i>Didelphis sciurea</i>	14	<i>Dipodomys d. helleri</i>	326
<i>Didelphis tapouaru</i>	12	<i>Dipodomys hermanni</i>	327
<i>Didelphis tridactyla</i>	16	<i>Dipodomys merriami</i>	322
<i>Didelphis ursina</i>	10	<i>Dipodomys m. ambiguus</i>	323
<i>Didelphis v. pigra</i>	8	<i>Dipodomys m. arenivagus</i>	325
<i>Didelphis viverrinus</i>	9	<i>Dipodomys m. mortivallis</i>	325
<i>Didelphis volans</i>	13	<i>Dipodomys m. nitratus</i>	323
<i>Didelphis vulpecula</i>	12	<i>Dipodomys m. parvus</i>	324
<i>Didelphis vulpina</i>	12	<i>Dipodomys m. similis</i>	324
<i>didelphoides</i> . (<i>Petaurus</i>).....	13	<i>Dipodomys m. simiolus</i>	324
<i>Didelphyidæ</i>	3	<i>Dipodomys parvus</i>	324
<i>Didelphys</i>	6	<i>Dipodomys phillipsi</i>	322
<i>Didelphys californica</i>	7	<i>Dipodomys similis</i>	324
<i>Didelphys cayopollin</i>	3	<i>Dipodomys simiolus</i>	324
<i>Didelphys cinerea</i>	4	<i>Dipodomys spectabilis</i>	326
<i>Didelphys elegans</i>	4	<i>Dipodomys wagneri</i>	327
<i>Didelphys gigantea</i>	19	<i>Dipodops</i>	327
<i>Didelphys marsupialis</i>	6	<i>Dipodops longipes</i>	330
<i>Didelphys m. etensis</i>	7	<i>Dipodops richardsoni</i>	330
<i>Didelphys mesamericana</i>	7	<i>Dipus</i>	349
<i>Didelphys m. tabascensis</i>	8	<i>Dipus acontion</i>	353
<i>Didelphys musculus</i>	3	<i>Dipus alactaga</i>	353
<i>Didelphys nana</i>	4	<i>Dipus cafer</i>	353
<i>Didelphys noctivaga</i>	4	<i>Dipus canadensis</i>	350
<i>Didelphys nudicaudata</i>	5	<i>Dipus hudsonius</i>	349, 350
<i>Didelphys pusilla</i>	4	<i>Dipus labradorius</i>	350

	PAGE.		PAGE.
Dipus maximus.....	362	drummondi. (Microtus).....	290
Dipus meridianus.....	193	drummondi. (Myoxus).....	277, 278
discolor. (Callithrix).....	557	drummondi. (Neotoma c.).....	278
discolor. (Calocephalus).....	462	drummondi. (Teonoma c.).....	278
dispar. (Neotoma f.).....	266	drummondii. (Arvicola).....	290
dispar. (Perognathus c.).....	343	dryas. (Myoxus).....	192
divergens. (Trichechus).....	459	dubia. (Phoca).....	460
diversus. (Funambulus i.).....	111	dubius. (Hippocamelus).....	50
dobsoni. (Microgale).....	488	dugon. (Trichechus).....	30
doguera. (Cynocephalus).....	566	Dugong.....	30
doguera. (Papio).....	566	Dugong australis.....	30
Doratoceros.....	89	Dugongidæ.....	30
d'orbigny. (Desmodus).....	540	Dugongidus.....	30
Dorcas.....	75	Dugungus.....	30
Dorcas dorcas.....	76	Duplicidentata.....	365
dorcas. (Antilope).....	55, 58, 76	dupreana. (Cynonycteris).....	493
dorcas. (Capra).....	76	dupreanus. (Ptilopus).....	493
dorcas. (Cemas).....	76	durangæ. (Lepus).....	371
dorcas. (Dorcas).....	76	durangi. (Sciurus).....	125
dorcas. (Gacella).....	76	durangi. (Sciurus a.).....	125
dorcas. (Gazella).....	76	dutcheri. (Microtus).....	291
Dorcelaphus.....	46	duvaceluii. (Pachysoma).....	494
Dorcelaphus texanus.....	47	dybowskii. (Cervus).....	43
Dorcopsis.....	17	dychei. (Reithrodontomys).....	256
Dorcopsis beccarii.....	17	dychii. (Rhithrodontomys).....	256
Dorcopsis chalmersi.....	17	dyselius. (Peromyscus).....	234
Dorcopsis luctuosa.....	17	Dysopes.....	521, 523
Dorcotragus.....	81	Dysopes cheiropus.....	521
Dorcotragus megalotis.....	81	Dysopes fumarius.....	522
dorsalis. (Antilope).....	60	Dysopes olivaceo-fuscus.....	522
dorsalis. (Cephalolophus).....	60	Dysopes velox.....	522
dorsalis. (Cephalophus).....	60		
dorsalis. (Cyclopes).....	23	eborivorus. (Sciurus).....	108
dorsalis. (Cycloturus).....	23	ecaudatus. (Centetes).....	487
dorsalis. (Lepilemur).....	547	ecaudatus. (Erinaceus).....	486, 487
dorsalis. (Sciurus).....	126, 131	ecaudatus. (Rhinolophus).....	540
dorsalis. (Sciurus a.).....	131	ecaudatus. (Tenrec).....	486, 487
dorsalis. (Tamias).....	143	Echidna.....	2
dorsata. (Hystrix).....	358, 359	Echidna acanthion.....	2
dorsata. (Phoca).....	463	Echidna australiensis.....	2
dorsatum. (Erethizon).....	359	Echidna breviaculeata.....	2
dorsatus. (Erethizon).....	359	Echidna hystrix.....	2
dorsigera. (Didelphis).....	3	Echidna setosa.....	2
Doryceros.....	51	Echimys canicollis.....	355
douglasi. (Citellus v.).....	179	Echimys mincæ.....	355
douglasi. (Spermophilus g.).....	179	Echimys trinitatis.....	355
douglasii. (Arctomys).....	179	Echinomyinæ.....	354
douglasii. (Sciurus).....	140	Echinoprocta.....	358
dromas. (Camelus).....	36	Echinopus.....	2
dromedarius. (Camelus).....	36	Echinopus setosus.....	2
Dromicia frontalis.....	15	Echinosciurus.....	114, 127

	PAGE.		PAGE.
Echinothrix.....	358	Ellobium.....	307
edax. (Arvicola).....	294	Ellobius.....	307
edax. (Microtus).....	294	elongata. (Glossophaga).....	532
Edentata.....	21	elongata. (Mephitis).....	433
Edostoma cinerea.....	540	elongata. (Mephitis m.).....	433
edulis. (Pteropus).....	490	elongata. (Phyllostoma).....	529
edwardsi. (Potamochoerus).....	34	elphinstonii. (Sciurus).....	112
edwardsi. (Pteropus).....	490	Emballonura.....	519
edwardsii. (Pteropus).....	490	Emballonura monticola.....	519
Egocerus.....	82	Emballonura nigrescens.....	519
Elaphoceros.....	42	emmonsii. (Ursus).....	422
Elaphodus.....	39	emmonsii. (Ursus a.).....	422
Elaphodus cephalolophus.....	39	empetra. (Mus).....	183
Elaphodus cephalophus.....	39	empetra. (Spermophilus).....	171
elaphus. (Cervus).....	42	energumenos. (Putorius v.).....	447
Elasmognathus bairdii.....	102	energumenus. (Putorius v.).....	447
elegans. (Citellus).....	174	Engeco.....	578
elegans. (Didelphys).....	4	Enhydra.....	455
elegans. (Felis).....	390	Enhydis.....	455
elegans. (Spermophilus).....	174	entellus. (Presbytis).....	573
Eleotragus.....	70	entellus. (Semnopithecus).....	573
Eleotragus bohor.....	70	entellus. (Simia).....	573
Eleotragus eleotragus.....	70	entomophaga. (Saimiris).....	559
Eleotragus reduncus.....	71	entrierianus. (Canis).....	408
Eleotragus vardoni.....	69	Enydris gracilis.....	456
eleotragus. (Antilope).....	70	Eonycteris.....	495
eleotragus. (Cerophorus).....	70	Eonycteris spelæa.....	496
eleotragus. (Eleotragus).....	70	Eosciurus.....	112
eleotragus. (Redunca).....	70	Eoxerus.....	111
Elephantidæ.....	106	Eozapus.....	350
elephantina. (Morunga).....	460	ephippium. (Ratufa).....	113
elephantina. (Phoca).....	460	ephippium. (Sciurus).....	113
Elephas.....	106	ephippium. (Sciurus b.).....	113
Elephas indicus.....	106	epixanthum. (Erethizon).....	358
Elephas maximus.....	106	epixanthus. (Erethizon).....	358
Elephas sumatranus.....	106	Epomophorus.....	490
Eleutherura infumata.....	493	Epomophorus crypturus.....	490
Eleutherura marginata.....	493, 494	Epomophorus gambianus.....	490
Eleutherura philippinensis.....	493	epomophorus. (Pteropus).....	490
elibatus. (Perognathus).....	333	Eptesicus.....	509
Eliomys hueti.....	192	Eptesicus f. bernardinus.....	511
Eliurus.....	199	Eptesicus melanops.....	509
Eliurus majori.....	199	Equidæ.....	102
Eliurus minor.....	199	equina. (Antilope).....	82
Eliurus myoxinus.....	199	equina. (Ozanna).....	82
Eliurus tanala.....	199	equinus. (Hippotragus).....	82
ellipsiprymnus. (Aigocerus).....	67	equioides. (Asinus).....	104
ellipsiprymnus. (Antilope).....	67	Equus.....	102
ellipsiprymnus. (Cobus).....	67	Equus a. somalicus.....	104
ellipsiprymnus. (Heleotragus).....	67	Equus bisulcus.....	50
ellipsiprymnus. (Kobus).....	67	Equus burchelli crawshayi.....	103

	PAGE.		PAGE.
<i>Equus b. selousi</i>	102	<i>estor. (Mephitis)</i>	434
<i>Equus b. transvaalensis</i>	102	<i>estor. (Mephitis m.)</i>	434
<i>Equus caballus</i>	102	<i>etensis. (Didelphis m.)</i>	7
<i>Equus chapmani</i>	102	<i>etensis. (Didelphys m.)</i>	7
<i>Equus grevyi</i>	104	<i>Euarctos</i>	420
<i>Equus hartmannæ</i>	103	<i>Euarctus</i>	422
<i>Equus hemionus</i>	104	<i>Eucervus</i>	46
<i>Equus hemippus</i>	104	<i>euchore. (Antidorcas)</i>	75
<i>Equus montanus</i>	103	<i>euchore. (Antilope)</i>	75
<i>Equus zebra</i>	103	<i>euchore. (Cerophorus)</i>	75
<i>eremicus. (Hesperomys)</i>	203	<i>euchore. (Gazella)</i>	75
<i>eremicus. (Lepus t.)</i>	380	<i>Eucritus</i>	360
<i>eremicus. (Peromyscus)</i>	203	<i>Eucuscus</i>	11
<i>Eremiomys</i>	286	<i>Eudorcas</i>	76
<i>eremonomus. (Citellus)</i>	164	<i>eugenii. (Halmaturus)</i>	18
<i>Erethizon</i>	358	<i>Euhyrax</i>	106
<i>Erethizon dorsatum</i>	359	<i>Euhys</i>	31
<i>Erethizon dorsatus</i>	359	<i>Eumerus</i>	465
<i>Erethizon epixanthum</i>	358	<i>Eumetopias</i>	457
<i>Erethizon epixanthus</i>	358	<i>Eumetopias jubata</i>	457
<i>Erethizontidæ</i>	358	<i>Eumetopias stelleri</i>	457
<i>Erethizontinæ</i>	358	<i>Euphractus</i>	25
<i>Ericulus</i>	487	<i>Euphractus minutus</i>	26
<i>Ericulus nigricans</i>	487	<i>Euphractus villosus</i>	26
<i>Ericulus setosus</i>	488	<i>Euprocyon</i>	425
<i>Erignathus</i>	461	<i>Eureodon</i>	32
<i>Erinaceidæ</i>	465	<i>europæa. (Ibex)</i>	92
<i>Erinaceinæ</i>	465	<i>europæa. (Talpa)</i>	480
<i>Erinaceus</i>	465	<i>europæus. (Capreolus)</i>	45
<i>Erinaceus albiventris</i>	466	<i>europæus. (Erinaceus)</i>	465, 466
<i>Erinaceus concolor</i>	466	<i>europæus. (Lepus)</i>	382
<i>Erinaceus dealbatus</i>	466	<i>europæus. (Meles)</i>	432
<i>Erinaceus diadematus</i>	466	<i>europæus. (Sciurus)</i>	115
<i>Erinaceus ecaudatus</i>	486, 487	<i>Euryceros</i>	85
<i>Erinaceus europæus</i>	465, 466	<i>Eurypterna</i>	22
<i>Erinaceus madagascariensis</i>	487	<i>euryspilus. (Helarctos)</i>	423
<i>Erinaceus sclateri</i>	466	<i>Eusus</i>	31
<i>Erinaceus semispinosus</i>	487	<i>Eutamias</i>	143
<i>Erinaceus setosus</i>	487, 488	<i>Eutamias caurinus</i>	152
<i>erminea. (Mustela)</i>	451	<i>Eutamias hopiensis</i>	156
<i>erxlebeni. (Cercopithecus)</i>	569	<i>Eutamias s. inyoensis</i>	149
<i>erythræa. (Simia)</i>	567	<i>Eutamias t. ochrogenys</i>	145
<i>erythræus. (Sciurus)</i>	116	<i>Eutheria</i>	21
<i>Erythrocebus</i>	568	<i>everetti. (Funambulus)</i>	111
<i>erythrodactylus. (Vespertilio)</i> ...	508	<i>everetti. (Sciurus)</i>	111
<i>erythrogenys. (Sciurus)</i>	109	<i>evotis. (Myotis)</i>	501
<i>erythronotus. (Anomalurus)</i>	107	<i>evotis. (Vespertilio)</i>	501
<i>Erythrosciurus</i>	114, 120	<i>evotis. (Vespertilio a.)</i>	505
<i>eschscholtzii. (Vespertilio)</i>	516	<i>Evotomys</i>	283
<i>estor. (Canis)</i>	410	<i>Evotomys brevicaudus</i>	285
<i>estor. (Cratogeomys)</i>	311	<i>Evotomys carolinensis</i>	285

	PAGE.		PAGE.
Evotomys dawsoni	283	Felis chinensis	390
Evotomys fuscodorsalis	283	Felis concolor	393
Evotomys galei	284	Felis c. floridana	393
Evotomys gapperi	283	Felis c. oregonensis	392
Evotomys g. brevicaudus	285	Felis coryi	393
Evotomys g. galii	284	Felis cougar	393
Evotomys g. ochraceus	284	Felis elegans	390
Evotomys g. saturatus	284	Felis eyra	393
Evotomys nivarius	285	Felis e. apache	393
Evotomys obscurus	285	Felis fontanieri	387
exiguus. (Heteromys)	347	Felis galeopardus	391
exilipes. (Blarina)	477	Felis gracilis	399
exilis. (Vespertilio)	502	Felis guttata	396
eximius. (Blarina)	477	Felis herschellii	391
extimus. (Sciurus c.)	133	Felis hippolestes	392
eyra. (Felis)	393	Felis h. aztecus	392
		Felis h. olympus	392
falconeri. (Ægoceros)	93	Felis irbis	387
falconeri. (Capra)	93	Felis jaguarondi	393
falconeri. (Hircus)	93	Felis javanensis	390
falklandica. (Cystophora)	460	Felis jubata	396
fallax. (Neotoma)	272	Felis lanea	397
fallax. (Perognathus)	340	Felis leo	391
familiaris. (Canis)	407	Felis l. goojratensis	392
fasciata. (Felis r.)	395	Felis leopardus	387
fasciatus. (Lynx)	395	Felis leptailurus serval	391
fasciatus. (Moschus m.)	38	Felis macroura	390
fasciatus. (Perognathus)	331, 336	Felis megabalia	397
fasciatus. (Tragelaphus r.)	85	Felis melas	387
fasciatus. (Tragelaphus s.)	85	Felis minuta	390
fascicularis. (Macacus)	567	Felis mitis	390
fascicularis. (Simia)	567	Felis onca	389
fatuus. (Synaptomys)	305	Felis o. hernandezi	389
Faunus	577	Felis panthera	387
Felidæ	386	Felis pardalis	389
felina. (Phalangista)	13	Felis pardus	387
felipensis. (Neotoma b.)	276	Felis pennsylvanica	393
Felis	386, 391	Felis persicus	392
Felis antiquorum	387	Felis poecilura	387
Felis apache	393	Felis rufa	394
Felis aztecus browni	392	Felis r. baileyi	395
Felis badia	394	Felis r. californica	396
Felis barbarus	392	Felis r. fasciata	395
Felis bengalensis	390	Felis r. floridana	396
Felis brasiliensis	390	Felis ruffa	394
Felis canadensis	394	Felis scripta	389
Felis c. mollipilosa	394	Felis senegalensis	391, 392
Felis capensis	391	Felis serval	391
Felis catenata	389	Felis servalina	390, 391
Felis catus	386, 391	Felis sumatrana	390
Felis chati	390	Felis sylvestris	391

	PAGE.		PAGE.
<i>Felis tigrina</i>	390	<i>flaviventer</i> . (<i>Arctomys</i>).....	183
<i>Felis tigris</i>	386	<i>flaviventer</i> . (<i>Lemur</i>).....	544
<i>Felis t. alba</i>	387	<i>flaviventer</i> . (<i>Marmota</i>).....	183
<i>Felis t. mongolica</i>	386	<i>flavus</i> . (<i>Cebus</i>).....	560
<i>Felis t. nigra</i>	386	<i>flavus</i> . (<i>Cricetodipus</i>).....	331
<i>Felis tristis</i>	389	<i>flavus</i> . (<i>Perognathus</i>).....	332
<i>Felis uncia</i>	387	<i>flavus</i> . (<i>Potos</i>).....	429
<i>Felis uncioides</i>	387	<i>flavus</i> . (<i>Xerus</i>).....	109
<i>Felis undata</i>	390	<i>flindersi</i> . (<i>Phascolarctus</i>).....	15
<i>Felix oregonensis</i>	392	<i>floridana</i> . (<i>Arvicola</i>).....	269
<i>felix</i> . (<i>Tamias q.</i>).....	154	<i>floridana</i> . (<i>Blarina</i>).....	477
<i>femoralis</i> . (<i>Perognathus</i>).....	342	<i>floridana</i> . (<i>Felis c.</i>).....	393
<i>femoralis</i> . (<i>Presbytis</i>).....	572	<i>floridana</i> . (<i>Felis r.</i>).....	396
<i>femoralis</i> . (<i>Semnopithecus</i>).....	572	<i>floridana</i> . (<i>Mus</i>).....	263, 269
<i>femorosaccus</i> . (<i>Nyctinomops</i>)..	523	<i>floridana</i> . (<i>Neotoma</i>).....	269
<i>femorosaccus</i> . (<i>Nyctinomus</i>)....	523	<i>floridana</i> . (<i>Pseudostoma</i>).....	308
<i>femurvillosum</i> . (<i>Artibeus</i>).....	537	<i>floridanus</i> . (<i>Geomys t.</i>).....	308
<i>fenestratus</i> . (<i>Dasypus m.</i>).....	27	<i>floridanus</i> . (<i>Hesperomys</i>).....	234
<i>ferox</i> . (<i>Cryptoprocta</i>)	397	<i>floridanus</i> . (<i>Lepus</i>).....	368
<i>ferruginea</i> . (<i>Tupaia</i>).....	464	<i>floridanus</i> . (<i>Lepus s.</i>).....	368
<i>ferrugineus</i> . (<i>Arvicola</i>).....	244	<i>floridanus</i> . (<i>Lynx</i>).....	396
<i>ferrugineus</i> . (<i>Herpestes</i>).....	402	<i>floridanus</i> . (<i>Peromyscus</i>).....	234
<i>ferrum-equinum</i> . (<i>Vespertilio</i>)..	496	<i>fluviatilis</i> . (<i>Manatus</i>).....	30
<i>ferus</i> . (<i>Sus s.</i>).....	31	<i>fodiens</i> . (<i>Neomys</i>).....	478
<i>fetidissima</i> . (<i>Mephitis</i>)	433	<i>fodiens</i> . (<i>Sorex</i>).....	478
<i>Fiber</i>	303	<i>foetida</i> . (<i>Phoca</i>).....	461, 462
<i>Fiber obscurus</i>	305	<i>foetulenta</i> . (<i>Mephitis</i>).....	435
<i>Fiber occipitalis</i>	304	<i>foina</i> . (<i>Mustela</i>).....	445
<i>Fiber osoyoosensis</i>	303	<i>fontanieri</i> . (<i>Felis</i>).....	387
<i>Fiber spatulatus</i>	304	<i>fontigenus</i> . (<i>Microtus</i>).....	289
<i>Fiber zibethicus</i>	303	<i>fontigenus</i> . (<i>Microtus p.</i>).....	289
<i>Fiber z. pallidus</i>	304	<i>formosanus</i> . (<i>Funambulus m.</i>) ..	111
<i>fiber</i> . (<i>Castor</i>).....	190, 191	<i>formosanus</i> . (<i>Sciurus m.</i>).....	111
<i>fimbripes</i> . (<i>Sorex</i>)	467	<i>formosus</i> . (<i>Perognathus</i>).....	335
<i>finlaysoni</i> . (<i>Sciurus</i>).....	120	<i>fossor</i> . (<i>Amblotis</i>).....	11
<i>fisheri</i> . (<i>Citellus v.</i>).....	177	<i>fossor</i> . (<i>Sciurus</i>).....	134
<i>fisheri</i> . (<i>Spermophilus b.</i>)	177	<i>fossor</i> . (<i>Wombatus</i>).....	11
<i>fisheri</i> . (<i>Spermophilus g.</i>).....	177	<i>fosteri</i> . (<i>Sorex</i>).....	467
<i>flava</i> . (<i>Talpa</i>).....	483	<i>fournieri</i> . (<i>Capromys</i>).....	356, 357
<i>flava</i> . (<i>Talpa e.</i>).....	483	<i>frænata</i> . (<i>Onychogalea</i>).....	18
<i>flava</i> . (<i>Viverra</i>).....	429	<i>frænatus</i> . (<i>Halmaturus</i>).....	18
<i>flaveolus</i> . (<i>Nycticejus</i>).....	515	<i>frænatus</i> . (<i>Macropus</i>).....	18
<i>flavescens</i> . (<i>Cephalophus g.</i>)....	62	<i>franklini</i> . (<i>Citellus</i>).....	168
<i>flavescens</i> . (<i>Talpa e.</i>).....	483	<i>franklini</i> . (<i>Spermophilus</i>).....	168
<i>flavescens</i> . (<i>Vulpes</i>).....	416	<i>franklinii</i> . (<i>Arctomys</i>).....	168
<i>flavidus</i> . (<i>Megadontomys</i>).....	243	<i>fraseri</i> . (<i>Anomalurus</i>).....	107
<i>flavigula</i> . (<i>Martes</i>).....	445	<i>frater</i> . (<i>Tamias</i>).....	150
<i>flavigula</i> . (<i>Mustela</i>).....	445	<i>fraterculus</i> . (<i>Peromyscus</i>).....	231
<i>flavigularis</i> . (<i>Lepus</i>).....	379	<i>fraterculus</i> . (<i>Urocyon c.</i>).....	418
<i>flavigularis</i> . (<i>Lepus c.</i>).....	379	<i>fraterculus</i> . (<i>Vesperimus</i>).....	231
<i>flavimanus</i> . (<i>Sciurus</i>).....	116	<i>frederiei</i> . (<i>Herpestes</i>).....	402

	PAGE.		PAGE.
frederici. (Phoca).....	462	Funambulus rufobrachium.....	115
fremonti. (Sciurus).....	142	funebri. (Lasiurus).....	512
frenata. (Mustela).....	453	funereus. (Pteropus).....	490
frenata. (Onychogale).....	18	Funisciurus.....	109
frenatus. (Macropus).....	18	Funisciurus l. isabella.....	110
frenatus. (Putorius).....	453	Funisciurus mystax.....	109
frerei. (Macroxus a.).....	110	Funisciurus palliatus.....	110
frondator. (Castor c.).....	190	Funisciurus poensis.....	110
frontalis. (Dromicia).....	15	Funisciurus pyrrhopus.....	109
frumentarius. (Cricetus).....	198	fur. (Macacus).....	567
frumentor. (Sciurus a.).....	128	Furcifer.....	51
fulgens. (Ælurus).....	423	Furcifer antiensis.....	52
fulgens. (Ailurus).....	423	furvus. (Peromyscus).....	242
fuliginosa. (Phalangista).....	13	fusca. (Diplostoma).....	309
fuliginosa. (Vespertilio).....	516	fusca. (Neotoma c.).....	279
fuliginosus. (Ateles).....	559	fusca. (Neotoma o.).....	279
fuliginosus. (Cercopithecus).....	568	fusca. (Phalangista).....	11
fuliginosus. (Cercopithecus).....	568	fusca. (Phascolumys).....	11
fuliginosus. (Molossus).....	522	fusca. (Talpa).....	483
fuliginosus. (Sciuropterus a.).....	185	fusca. (Teonoma).....	279
fuliginosus. (Sciuropterus v.).....	185	fuscifrons. (Gazella).....	77
fuliginosus. (Sciurus).....	134	fuscipes. (Neotoma).....	264
fuliginosus. (Sciurus c.).....	134	fuscodorsalis. (Evotomys).....	283
fuliginosus. (Trichosurus v.).....	13	fusco-murina. (Presbytis).....	573
fulva. (Arvicola).....	287	fuscus. (Desmodus).....	540
fulva. (Vulpes).....	413	fuscus. (Ornithorhynchus).....	1
fulvescens. (Hesperomys).....	253	fuscus. (Phascolaretus).....	15
fulvescens. (Oryzomys).....	253	fuscus. (Stentor).....	554
fulvescens. (Reithrodontomys m.).....	261	fuscus. (Thomomys c.).....	316
fulvescens. (Reithrodontomys m.).....	261	fuscus. (Thomomys d.).....	316
fulvipes. (Canis).....	408	fuscus. (Vespertilio).....	509
fulvus. (Canis).....	413	fuscus. (Xerus).....	109
fulvus. (Chilonycteris d.).....	526		
fulvus. (Dermonotus d.).....	526	Gacella.....	75
fulvus. (Geomys).....	317	Gacella bennetti.....	77
fulvus. (Peromyscus l.).....	214	Gacella dorcas.....	76
fulvus. (Peromyscus s.).....	214	Gacella granti.....	78
fulvus. (Pteronotus d.).....	526	Gacella pelzelni.....	77
fulvus. (Thomomys).....	317	Gacella picticaudata.....	76
fumarius. (Dysopes).....	522	Gacella soemmerringi.....	78
fumeus. (Sorex).....	467, 468	Gacella spekii.....	77
Funambulus.....	110	Gacella subgutturosa yarkandensis.....	76
Funambulus everetti.....	111	Gacella thomsoni.....	78
Funambulus indicus.....	110, 112	Galaginæ.....	548
Funambulus insignis.....	111	Galago.....	549
Funambulus i. diversus.....	111	Galago demidoffi.....	549
Funambulus laticaudatus.....	111	Galago galago.....	549
Funambulus m. barbii.....	112	Galago minor.....	548
Funambulus m. formosanus.....	111	Galago senegalensis.....	549
Funambulus palmarum.....	112	galago. (Galago).....	549
Funambulus poensis.....	110	galago. (Lemur).....	549

	PAGE.		PAGE.
Galagoides.....	549	Gazella thomsoni.....	78
Galagoides senegalensis.....	549	Gazella walleri.....	80
Gale.....	446	gazella. (Antilope).....	76, 92
galei. (Evotomys).....	284	gazella. (Capra).....	83
galei. (Evotomys g.).....	284	gazella. (Hircus).....	92
Galemys.....	474, 479	gazella. (Oryx).....	83
Galemys micrurus.....	474	Gelada.....	566
Galeopardus capensis.....	391	gelada. (Macacus).....	566
Galeopardus senegalensis.....	391	Genetta.....	398
Galeopardus serval.....	391	Genetta abyssinica.....	398
galeopardus. (Felis).....	391	Genetta aubryana.....	399
Galeopithecus.....	464	Genetta senegalensis.....	398
Galeopithecus philippinensis.....	464	Genetta tigrina.....	398
Galeopithecus volans.....	464	genetta. (Viverra).....	398
Galera.....	442	Genyscœlus.....	364
Galera barbara.....	443	Geocapromys.....	357
Galera b. irara.....	443	geoffroyi. (Nyctophilus).....	519
Galictis.....	443	Geomyidæ.....	308
Galidictis.....	443	Geomys.....	308
Galidictis chrysogaster.....	445	Geomys borealis.....	316
galii. (Evotomys g.).....	284	Geomys breviceps.....	310
galinieri. (Herpestes).....	403	Geomys b. attwateri.....	310
gambeli. (Peromyscus t.).....	218	Geomys bulleri.....	311
gambelii. (Hesperomys).....	218	Geomys bursarius.....	309
gambianus. (Epomophorus).....	490	Geomys b. lutescens.....	309
gambianus. (Leo).....	392	Geomys cherriei.....	313
gambianus. (Pteropus).....	490	Geomys cinerea.....	309
gapperi. (Arvicola).....	283	Geomys clarkii.....	311
gapperi. (Evotomys).....	238	Geomys f. austrinus.....	308
gaumeri. (Heteromys).....	344	Geomys fulvus.....	317
gaurus. (Bos).....	100	Geomys heterodus.....	313
gaurus. (Gavæus).....	100	Geomys hispidus.....	312
gaurus. (Peromyscus).....	224	Geomys lutescens.....	309
Gavæus gaurus.....	100	Geomys merriami.....	310
Gazella.....	75	Geomys nelsoni.....	311
Gazella bennetti.....	77	Geomys oregonensis.....	309
Gazella christii.....	77	Geomys pinetis.....	308
Gazella cuvieri.....	77	Geomys scalops.....	312
Gazella dorcas.....	76	Geomys texensis.....	310
Gazella d. sundevalli.....	76	Geomys tuza.....	308
Gazella euchore.....	75	Geomys t. austrinus.....	309
Gazella fuscifrons.....	77	Geomys t. floridanus.....	308
Gazella granti.....	78	Geomys t. mobilensis.....	308
Gazella hazenna.....	77	Geomys umbrinus.....	318
Gazella naso.....	77	Georhynchus.....	348
Gazella pelzelni.....	77	Georhynchus capensis.....	348
Gazella picticaudata.....	76	Georychus.....	348
Gazella pygarga.....	58	Georychus pallidus.....	348
Gazella soemmerringi.....	78	Geosciurus.....	108
Gazella spekei.....	77	Gerbillinae.....	193
Gazella subgutturosa yarkandensis	76	Gerbillus.....	350

	PAGE.		PAGE.
Gerbillus shawi.....	193	goral. (Nemorhædus).....	91
Gerboides.....	18	goral. (Nemoredus).....	91
gerrardi. (Sciurus).....	132	Gorgon.....	58
gibbsi. (Neurotrichus).....	480	gorgon. (Antilope).....	59
gibbsii. (Urotrichus).....	479, 480	gorgon. (Catoblepas).....	59
gigantea. (Didelphys).....	19	gorgon. (Connochætes).....	59
gigantea. (Yerboa).....	18, 19	gossypinus. (Peromyscus).....	216
giganteus. (Halmaturus).....	20	gossypinus. (Hesperomys).....	216
giganteus. (Jaculus).....	19	gossypinus. (Peromyscus).....	216
giganteus. (Kangurus).....	20	gour. (Bos).....	100
giganteus. (Macropus).....	18, 19, 20	gracilis. (Belideus).....	14
gigas. (Alce).....	42	gracilis. (Canis).....	408
gigas. (Alces).....	42	gracilis. (Enydri).....	456
gigas. (Megaderma).....	499	gracilis. (Felis).....	399
gilberti. (Sitomys).....	227	gracilis. (Herpestes).....	403
gilva. (Neotoma i.).....	274	gracilis. (Hesperomys).....	217
Giraffa.....	52	gracilis. (Mungos).....	403
Giraffa camelopardalis.....	52	gracilis. (Spilogale).....	441
Giraffa giraffa.....	52	gracilis. (Tamias q.).....	156
giraffa. (Giraffa).....	52	gracilis. (Viverra).....	399
Giraffidæ.....	52	grahamensis. (Sciurus f.).....	143
glaber. (Heterocephalus).....	349	grahamensis. (Sciurus h.).....	143
glacialis. (Lepus).....	383	grammurus. (Citellus v.).....	175, 176
glama. (Camelus).....	37	grammurus. (Sciurus).....	175
glama. (Lama).....	37	grammurus. (Spermophilus).....	176
Glis.....	182, 191	grandis. (Neotoma).....	271
Glis canadensis.....	183	grandis. (Neotoma d.).....	271
Glis glis.....	191, 192	grangeri. (Lepus).....	374
Glis nitidula.....	192	grangeri. (Lepus s.).....	374
glis. (Glis).....	191, 192	grangeri. (Neotoma).....	280
glis. (Sciurus).....	191, 192	grangeri. (Teonoma).....	280
Glisorex.....	464	granti. (Gacella).....	78
Glossophaga.....	531	granti. (Gazella).....	78
Glossophaga amplexicaudata.....	532	Graphidurus.....	192
Glossophaga elongata.....	532	Graphiurus.....	192
Glossophaga longirostris.....	532	Graphiurus capensis.....	192
Glossophaga mutica.....	531	Graphiurus hueti.....	192
Glossophaga soricina.....	532, 533	Graphiurus natglasii.....	192
Glossophaginae.....	531	Graphyurus.....	192
gnou. (Antilope).....	60	gratus. (Limnotragus).....	87
gnou. (Bos).....	60	gratus. (Tragelaphus).....	87
gnu. (Antilope).....	58, 60	grayi. (Bettongia).....	17
gnu. (Catoblepas).....	60	grayi. (Hypsiprymnus).....	16
gnu. (Cemas).....	60	grayi. (Sciurus h.).....	117
gnu. (Connochætes).....	60	graysoni. (Lepus).....	376
godmani. (Mustela).....	445	greenii. (Scotophilus).....	509
goldmani. (Heteromys).....	345	grevyi. (Equus).....	104
goldmani. (Neotoma).....	277	grimmi. (Cephalophus).....	62
goorjatensis. (Felis l.).....	392	Grimmia.....	60
goral. (Antilope).....	91	Grimmia burchelli.....	62
goral. (Kemas).....	91	Grimmia campbelliæ.....	62

	PAGE.		PAGE.
Grimmia grimmia.....	61	Guerlinguetus	113, 121
Grimmia irrorata.....	62	guettardi. (Cervus).....	40
Grimmia nictitans.....	62	Guevei.....	60
Grimmia splendidula.....	62	guianæ. (Loncheres).....	355
grimmia. (Antilope).....	61	guianensis. (Didephis).....	3
grimmia. (Capra).....	62, 64	gunnisoni. (Cynomys).....	187
grimmia. (Cephalolophus).....	62	gunnisoni. (Spermophilus).....	181
grimmia. (Cerophorus).....	61	guntheri. (Madoqua).....	66
grimmia. (Grimmia).....	61	Gulo.....	442
grimmia. (Moschus).....	62	Gulo hylæus.....	442
grisea. (Antilope).....	58	Gulo luscus.....	442
grisea. (Cynomys).....	180	Gulo luteus.....	442
griseicauda. (Sciurus c.).....	119	gulo. (Mustela).....	442
griseiflavus. (Sciurus).....	130	guttata. (Felis).....	396
griseoflavus. (Macroxus).....	130	guttatus. (Arctomys).....	173
griseoflavus. (Sciurus).....	123	guzeratensis. (Leo).....	392
griseofuscus. (Halmaturus).....	20	gymnicus. (Sciurus h.).....	137
griseogena. (Sciurus).....	114, 121	Gymnotis.....	46
griseogenys. (Sciurus).....	121	gymnotis. (Phalangista).....	12
griseo-lanosus. (Kangurus).....	19	Gymnuromys.....	199
griseopectus. (Sciurus).....	116	Gymnuromys roberti.....	199
griseorufus. (Halmaturus).....	20	Gyrosus.....	31
griseus. (Canis).....	412, 413, 417		
griseus. (Canis l.).....	412	Habrocebus.....	541
griseus. (Cheirogaleus).....	547	Habrocebus diadema.....	541
griseus. (Hapalemur).....	547	Habrocebus lanatus.....	543
griseus. (Hapalolemur).....	547	Habrothrix hydrobates.....	262
griseus. (Herpestes).....	402	haggardi. (Neotragus).....	64
griseus. (Ichneumon).....	402	haggardi. (Ourebia).....	64
griseus. (Lemur).....	546, 547	Halicore.....	30
griseus. (Lupus).....	412	Halicore australis.....	30
griseus. (Nemorhædus).....	91	Halicyon richardii.....	461
griseus. (Nemorhedus).....	91	Halipædisca.....	29
griseus. (Rhinolophus).....	498	Haliphilus.....	461
griseus. (Sciurus).....	134	Halmaturus.....	18
Grison.....	443	Halmaturus eugenii.....	18
Grisonia.....	443	Halmaturus frænatus.....	18
groenlandica. (Phoca).....	463	Halmaturus giganteus.....	20
grœnlandicus. (Lepus).....	383	Halmaturus griseofuscus.....	20
Grymæomys.....	3	Halmaturus griseorufus.....	20
Grymæomys agilis.....	4	Halmaturus labiatus.....	20
Grymæomys scapulatus.....	4	Halmaturus laniger.....	19
gryphus. (Vespertilio).....	504	Halmaturus lessoni.....	19
guanacus. (Llama).....	36	Halmaturus luctuosus.....	17
guatemalæ. (Urocyon).....	418	Halmaturus nemoralis.....	19
guatemalæ. (Urocyon c.).....	418	Halmaturus nuchalis.....	18
guentheri. (Trichys).....	361	Halmaturus thetidis.....	18
Guepardus.....	396	Halmaturus thetis.....	18
Guereza.....	573, 574	Halmaturus ualabatus.....	19
Guereza ruppellii.....	574	Hamadryas.....	562
guereza. (Colobus).....	574	Hamadryas ægyptiaca.....	565

	PAGE.		PAGE.
Hamadryas choeropithecus.....	565	Heliosciurus palliatus.....	110
hamadryas. (Cynocephalus).....	565	Heliosciurus poensis.....	110
hamadryas. (Papio).....	565	Heliosciurus pyrrhopus.....	110
hamadryas. (Simia).....	565	Heliosciurus stangeri.....	108
hamiltoni. (Paradoxurus).....	401	helleri. (Dipodomys d.).....	326
Hapale.....	553	helleri. (Perognathus).....	340
Hapale leucopus.....	553	helleri. (Thomomys).....	316
Hapalemur.....	546	Helogale.....	403
Hapalemur griseus.....	547	Helogale atkinsoni.....	403
Hapalemur simus.....	547	helvolus. (Reithrodontomys)...	262
Hapalolemur.....	546	helvolus. (Rhithrodontomys g.)	262
Hapalolemur griseus.....	547	Hemicentetes.....	487
Haploceros.....	94	Hemicentetes madagascariensis	487
Haplodontia.....	188	Hemicentetes nigriceps.....	487
Haplodontia olympica.....	189	Hemicentetes semispinosus.....	487
Haplodontia pacifica.....	188	Hemicentetes variegatus.....	487
Haplodontia phæa.....	189	Hemicentetes v. buffoni.....	487
Haplodontia rufa.....	188	Hemiderma.....	531
Haplodontidæ.....	188	Hemiderma subrufum.....	531
Haplomyomys.....	203	Hemiechinus.....	466
hardwicki. (Hemigalus).....	400	Hemigalago.....	549
hardwickii. (Viverra).....	399, 400	Hemigale zebre.....	400
hardyi. (Zapus h.).....	350	Hemigalus.....	400
Harpyia.....	494	Hemigalus hardwicki.....	400
Harpyia cephalotes.....	495	hemionotis. (Peromyscus).....	207
Harpyia major.....	495	hemionus. (Cervus).....	49
Harpyia pallasii.....	495	hemionus. (Equus).....	104
harrisi. (Citellus).....	160	hemionus. (Odocoileus).....	49
harrisi. (Spermophilus).....	160	hemionus. (Odontocælus).....	49
hartmannæ. (Equus).....	103	Hemiotomys.....	286
harveyi. (Perameles).....	17	hemippus. (Equus).....	104
hastalis. (Cervus).....	40	Hemitragus.....	90, 94
hastatum. (Phyllostoma).....	530	Hemitragus jemlahicus.....	94
hastatus. (Nanotragus).....	64	Hemitragus jemlaicus.....	94
hastatus. (Vespertilio).....	530	hemprichiana. (Antilope).....	65
haydeni. (Sorex).....	467	hemprichianus. (Cephalophus)...	66
hazenna. (Gazella).....	77	henrici. (Mustela).....	445
hebes. (Vulpes v.).....	416	henshawi. (Vespertilio n.).....	503
heermanni. (Sciurus).....	134	hercules. (Artibeus).....	537, 538
Helamys.....	353	hermanni. (Dipodomys).....	327
Helamys capensis.....	353	hermaphrodita. (Viverra).....	399
Helarctos.....	420	hermaphroditus. (Paradoxurus)	399, 400
Helarctos euryspilus.....	423	hernandezi. (Felis o.).....	389
Helarctos malayanus.....	423	hernandezi. (Procyon l.).....	426
Helarctus.....	423	hernandezii. (Leopardus).....	389
Heleotragus.....	67	hernandezii. (Procyon).....	426
Heleotragus ellipsiprymnus.....	67	Herpailurus.....	386
Heleotragus vardonii.....	69	Herpestes.....	401
Heliophobius.....	348	Herpestes adailensis.....	403
Heliophobius argenteo-cinereus...	348	Herpestes andersoni.....	402
Heliosciurus.....	114		

	PAGE.		PAGE.
<i>Herpestes ferrugineus</i>	402	<i>Hesperosciurus</i>	114, 134
<i>Herpestes frederici</i>	402	<i>hesperus</i> . (<i>Pipistrellus</i>).....	506
<i>Herpestes galinieri</i>	403	<i>hesperus</i> . (<i>Scotophilus</i>).....	506
<i>Herpestes gracilis</i>	403	<i>Heterocephalus</i>	349
<i>Herpestes griseus</i>	402	<i>Heterocephalus glaber</i>	349
<i>Herpestes iodoprymnus</i>	403	<i>Heterocephalus philippi</i>	349
<i>Herpestes lefebvrei</i>	403	<i>heterocervus</i> . (<i>Cervus</i>).....	43
<i>Herpestes mungo</i>	402	<i>heterodus</i> . (<i>Geomys</i>).....	313
<i>Herpestes mutgigella</i>	403	<i>Heterogeomys</i>	312
<i>Herpestes mutscheltschela</i>	403	<i>Heterogeomys lanianus</i>	313
<i>Herpestes ochromelas</i>	403	<i>Heterogeomys torridus</i>	312
<i>Herpestes ornatus</i>	403	<i>Heterohyrax</i>	106
<i>Herpestes pallidus</i>	402	<i>Heteromyidæ</i>	322
<i>Herpestes parvulus</i>	403	<i>Heteromyinæ</i>	331
<i>Herpestes penicillatus</i>	404	<i>Heteromys</i>	344
<i>Herpestes punctulatus</i>	403	<i>Heteromys albolimbatus</i>	346
<i>Herpestes ruficauda</i>	403	<i>Heteromys alleni</i>	346, 347
<i>Herpetomys</i>	287	<i>Heteromys anomalus</i>	345
<i>herroni</i> . (<i>Peromyscus</i>).....	233	<i>Heteromys exiguus</i>	347
<i>herronii</i> . (<i>Sitomys</i>).....	233	<i>Heteromys gaumeri</i>	344
<i>herschelii</i> . (<i>Felis</i>).....	391	<i>Heteromys goldmani</i>	345
<i>Hesperomys affinis</i>	240	<i>Heteromys irroratus</i>	344
<i>Hesperomys anthonyi</i>	205	<i>Heteromys jesupi</i>	345
<i>Hesperomys austerus</i>	225	<i>Heteromys paralius</i>	345
<i>Hesperomys aztecus</i>	241	<i>Heteromys pictus isthmicus</i>	347
<i>Hesperomys boylii</i>	227	<i>Heteromys texensis</i>	347
<i>Hesperomys caliginosus</i>	254	<i>hiemalis</i> . (<i>Sciurus</i>).....	133
<i>Hesperomys eremicus</i>	203	<i>himalaicus</i> . (<i>Canis</i>).....	416
<i>Hesperomys floridanus</i>	234	<i>hindsii</i> . (<i>Tamias t.</i>).....	144
<i>Hesperomys fulvescens</i>	253	<i>hindsii</i> . (<i>Tamias t.</i>).....	144
<i>Hesperomys gambelii</i>	218	<i>Hippelaphus</i>	42
<i>Hesperomys gossypinus</i>	216	<i>Hippocamelus</i>	50
<i>Hesperomys gracilis</i>	217	<i>Hippocamelus antisensis</i>	52
<i>Hesperomys leucodactylus</i>	243	<i>Hippocamelus dubius</i>	50
<i>Hesperomys leucopus arcticus</i>	220	<i>Hippocamelus nemorivagus</i>	52
<i>Hesperomys l. deserticolus</i>	210	<i>Hippocamelus sartori</i>	51
<i>Hesperomys l. nebrascensis</i>	220	<i>hippolestes</i> . (<i>Felis</i>).....	392
<i>Hesperomys l. rufinus</i>	215	<i>Hippopotamus terrestris</i>	101
<i>Hesperomys mexicanus</i>	242	<i>Hipposiderinæ</i>	498
<i>Hesperomys minutus</i>	254	<i>Hipposideros</i>	498
<i>Hesperomys myoides</i>	217	<i>Hipposideros lankadiva</i>	498
<i>Hesperomys niveiventris</i>	206	<i>Hipposiderus</i>	498
<i>Hesperomys nudipes</i>	241	<i>Hipposiderus bicolor</i>	498
<i>Hesperomys palustris</i>	249	<i>Hipposiderus cyclops</i>	498
<i>Hesperomys sonoriensis</i>	213	<i>Hipposiderus diadema</i>	498
<i>Hesperomys taylori</i>	203	<i>Hippotigris zebra</i>	103
<i>Hesperomys teguina</i>	263	<i>Hippotragus</i>	82
<i>Hesperomys texana</i>	218	<i>Hippotragus equinus</i>	82
<i>Hesperomys toltecus</i>	247	<i>Hippotragus leucophæus</i>	82
<i>Hesperomys torridus</i>	201	<i>Hippotragus niger</i>	82
<i>Hesperomys truei</i>	237	<i>hippurus</i> . (<i>Sciurus</i>).....	116

	PAGE.		PAGE.
Hircus.....	91	huamel. (Anomolocera).....	52
Hircus ægagrus.....	92	Huamela.....	51
Hircus falconeri.....	93	hudsonia. (Mephitis).....	433
Hircus gazella.....	92	hudsonia. (Mephitis m.).....	433
Hircus megaceros.....	93	hudsonica. (Lutra).....	454
hircus. (Aegoceros).....	92	hudsonica. (Mephitis a.).....	433
hircus. (Capra).....	91, 92	hudsonicus. (Hystrix).....	359
hirsutus. (Arvicola).....	287	hudsonicus. (Sciurus v.).....	136
hispida. (Nycteris).....	499	hudsonius. (Dipus).....	349, 350
hispida. (Phoca).....	462	hudsonius. (Jaculus).....	353
hispidus. (Geomys).....	312	hudsonius. (Lepus).....	383
hispidus. (Perognathus).....	336	hudsonius. (Mus).....	306
hispidus. (Sigmodon).....	244	hudsonius. (Sciurus).....	136, 186
hispidus. (Vespertilio).....	499	hudsonius. (Zapus).....	350
Histiophoca.....	461	hueti. (Elomys).....	192
hodgsoni. (Kemas).....	73	hueti. (Graphiurus).....	192
hodgsoni. (Pantholops).....	73	humboldtii. (Conepatus).....	437
hodgsonii. (Antilope).....	73	humeral. (Tagassu a.).....	34, 35
Hodomys.....	281	humeralis. (Nycticeius).....	514, 515
Hodomys alleni.....	281	humeralis. (Nycticejus).....	514
hoffmanni. (Choleopus).....	21	humeralis. (Tayassu a.).....	34
hoffmanni. (Sciurus æ.).....	121	humeralis. (Vespertilio).....	514
holomelas. (Propithecus).....	542	humilis. (Ochetodon).....	256
holomelas. (Propithecus d.).....	542	huro. (Mustela).....	443
holubi. (Æpyceros m.).....	72	Hyæna.....	404
holzneri. (Lepus).....	371	Hyæna antiquorum.....	405
holzneri. (Lepus f.).....	371	Hyæna capensis.....	405
holzneri. (Lepus s.).....	371	Hyæna crocuta.....	405
holzneri. (Mephitis o.).....	435	Hyæna hyæna.....	404, 405
Homelaphus.....	51	Hyæna orientalis.....	405
Homo lar.....	575	Hyæna picta.....	406
homochroia. (Peromyscus).....	224	Hyæna striata.....	405
hoodi. (Arctomys).....	166	Hyæna venatica.....	406
hopiensis. (Eutamias).....	156	Hyæna virgata.....	405
hopiensis. (Tamias).....	156	Hyæna vulgaris.....	405
horriæus. (Ursus).....	421	hyæna. (Canis).....	404, 405
horriæus. (Ursus h.).....	421	hyæna. (Hyæna).....	404, 405
horribilis. (Ursus).....	420	Hyænidæ.....	404
horsfieldii. (Cynopterus).....	494	Hyæninæ.....	404
hortensis. (Arvicola).....	244	hyaenoides. (Viverra).....	404
hortulorum. (Cervus).....	43	hybrida. (Tigris r.).....	387
hosei. (Semnopithecus).....	572	Hydrelaphus.....	39
hosii. (Presbytis).....	572	Hydrelaphus inermis.....	39
hova. (Oryzorictes).....	488, 489	hydrobates. (Habrothrix).....	262
hova. (Oryzoryctes).....	489	hydrobates. (Ichthyomys).....	262
hoyi. (Microsorex).....	472	hydrochæris. (Sus).....	365
hoyi. (Sorex).....	472	Hydrochærus.....	365
huachuca. (Sciurus a.).....	123	Hydrochærus capybara.....	365
huanaca. (Auchenia).....	36	Hydrochærus hydrochærus.....	365
huanacha. (Lama).....	36, 37	hydrochærus. (Hydrochærus).....	365
huanachus. (Lama).....	36	Hydrolagus.....	366

	PAGE.		PAGE.
Hydromyinae.....	192	Hystriidae.....	361
Hydromys.....	192	Hystriinae.....	361
Hydromys chrysogaster.....	192	Hystrix.....	361
Hydromys c. leucogaster.....	193	Hystrix chrysuros.....	354
Hydromys leucogaster.....	193	Hystrix crassipinis.....	361
Hydropotes.....	39	Hystrix cristata.....	361
Hydropotes inermis.....	39	Hystrix dorsata.....	358, 359
Hydro-Sorex.....	478	Hystrix hudsonicus.....	359
Hydrotragus.....	67, 86	Hystrix mexicana.....	360
Hyelaphus.....	42	Hystrix pilosus.....	359
hylæus. (Gulo).....	442	Hystrix prehensilis.....	359, 360
Hylanthropus.....	578	hystrix. (Echidna).....	2
Hylobates.....	575	hystrix. (Ornithorhynchus).....	2
Hylobates agilis.....	575		
Hylobates concolor.....	575	Ibex.....	91
Hylobates leuciscus.....	575	Ibex alpinus.....	92
Hylobates mulleri.....	575	Ibex europæa.....	92
Hylobates syndactylus.....	576	ibex. (Aegoceros).....	91
Hylobatidae.....	575	ibex. (Capra).....	91
Hylogale.....	464	Ichneumia nigricaudatus.....	403
hylophaga. (Blarina b.).....	476	Ichneumon.....	401
hyperythrus. (Microtus c.).....	292	Ichneumon griseus.....	402
Hypoderma moluccensis.....	494	ichneumon. (Viverra).....	401
hypoleuca. (Simia).....	562	Ichthyomys.....	262
hypoleucus. (Cebus).....	562	Ichthyomys hydrobates.....	262
hypoleucus. (Phalangista).....	12	Ichthyomys stolzmanni.....	262
hypomelanus. (Pteropus).....	491	Ictides.....	400
hypophæus. (Sciurus c.).....	134	Ictides ater.....	400
hypopyrrhus. (Sciurus).....		Ictidomys.....	160, 166
..... 122, 127, 128, 131		Ictis.....	446
hypopyrrhus. (Sciurus a.).....	128	idahoensis. (Sorex).....	467
hypoxanthus. (Sciurus).....	127	illigeri. (Midas).....	554
Hypsicebus.....	551	illigeri. (Ædipomidas).....	554
Hypsiprymnus.....	16	imaculatus. (Perognathus f.).....	332
Hypsiprymnus apicalis.....	16	imberbis. (Strepsiceros).....	88
Hypsiprymnus cuniculus.....	16	impavida. (Didelphis).....	3
Hypsiprymnus grayi.....	16	imperator. (Zapus).....	351
Hypsiprymnus lesueuri.....	16	impiger. (Reithrodontomys l.).....	255
Hypsiprymnus melanotis.....	17	impiger. (Rhithrodontomys l.).....	255, 256
Hypsiprymnus myosurus.....	16	indianola. (Spilogale).....	440
Hypsiprymnus peronii.....	16	indica. (Didelphis).....	11
Hypsiprymnus potori.....	16	indica. (Mevinna).....	37
Hypsiprymnus rufescens.....	17	indica. (Ratufa).....	112
Hypsiprymnus setosus.....	16	indica. (Viverra).....	398
Hypsugo.....	506	indicus. (Elephas).....	106
Hypudæus.....	200	indicus. (Funambulus).....	110, 112
Hypudæus leucogaster.....	200	indicus. (Sciurus).....	112
Hypudæus ochrogaster.....	299	indicus. (Tapirus).....	101
Hyracoidea.....	105	indicus. (Tragulus).....	37
Hyrax.....	106	Indri.....	541, 543
Hyrax semicircularis.....	106	Indri brevicaudata.....	541

	PAGE.		PAGE.
indri. (Lemur).....	541	isaaci. (Boocercus e.).....	85, 68
Indris.....	541	isabella. (Funisciurus l.).....	110
Indris brevicaudatus.....	541	isabella. (Sciurus).....	110
Indris indris.....	541	isabellina. (Antilope).....	70
Indris laniger.....	543	Isodon pilorides.....	356, 357
Indris longicaudatus.....	543	Isotus.....	500
indris. (Indris).....	541	isthmus. (Heteromys p.).....	347
Indrisinæ.....	541	isthmus. (Liomys p.).....	347
inermis. (Hydrelaphus).....	39	italicus. (Sciurus).....	115
inermis. (Hydropotes).....	39		
inexoratus. (Sigmodon h.).....	246	Jacchus.....	553
inexpectatus. (Rhithrodontomys).....	262	Jacchus penicillatus.....	553
infumata. (Eleutherura).....	493	Jacchus vulgaris.....	553
infusata. (Cynonycteris).....	493	jacchus. (Callithrix).....	553
ingrahami. (Capromys).....	357	jacchus. (Simia).....	553
innuitus. (Vulpes l.).....	414	jacksoni. (Alcelaphus).....	56
innuus. (Simia).....	566	jacksoni. (Bubalis).....	56
inornatus. (Perognathus).....	334	Jaculidæ.....	349
Insectivora.....	464	Jaculinæ.....	353
insignis. (Funambulus).....	111	Jaculus.....	350
insignis. (Peromyscus).....	233	Jaculus americanus.....	350
insignis. (Sciurus).....	111	Jaculus giganteus.....	19
insignis. (Zapus).....	352, 353	Jaculus hudsonius.....	353
insolitus. (Lepus).....	373	jaculus. (Mus).....	353
insperatus. (Arvicola).....	289	jagorii. (Pachysoma).....	495
intermedia. (Mormoops).....	527	Jaguarus.....	386
intermedia. (Mormops).....	527	jaguarondi. (Felis).....	393
intermedia. (Neotoma).....	273	jalapæ. (Oryzomys).....	251
intermedius. (Artibeus).....	536	jamaicensis. (Artibeus).....	535, 536
intermedius. (Lasiurus).....	514	japonensis. (Leopardus).....	387
intermedius. (Phenacomys).....	282	japonicus. (Ursus).....	423
intermedius. (Scalops a.).....	484	javanensis. (Felis).....	390
intermedius. (Scalops m.).....	484	javanensis. (Leopardus).....	390
intermedius. (Scalopus a.).....	484	javanensis. (Panthera).....	390
intermedius. (Sciurus).....	131	javanicus. (Pteropus).....	490
interrupta. (Mephitis).....	438	jeffersoni. (Meles).....	430
interrupta. (Spilogale).....	438, 439	jemlahica. (Capra).....	94
Inuus.....	566	jemlahicus. (Hemitragus).....	94
Inuus nemestrinus.....	567	jemlaicus. (Hemitragus).....	94
Inuus palpebrosus.....	567	jentinki. (Sciurus).....	118
inyoensis. (Eutamias s.).....	149	jesupi. (Heteromys).....	345
inyoensis. (Tamias c.).....	149	jharal. (Capra).....	94
inyoensis. (Tamias s.).....	149	jimela. (Damalis).....	58
inyoensis. (Urocyon c.).....	418	jimela. (Damaliscus).....	58
iodoprymnus. (Herpestes).....	403	johni. (Presbytis).....	573
irara. (Galera b.).....	443	johnii. (Simia).....	573
irara. (Tayra b.).....	443	johnstoni. (Æpyceros m.).....	72
irbis. (Felis).....	387	jubata. (Capra).....	82
irbis. (Uncia).....	387	jubata. (Cynofelis).....	396
irrorata. (Grimmia).....	62	jubata. (Eumetopias).....	457
irroratus. (Heteromys).....	344	jubata. (Felis).....	396

	PAGE.		PAGE.
jubata. (Otaria).....	457	Kobus sing-sing.....	68
jubata. (Phoca).....	457	kodiacensis. (Spermophilus e.)...	172
jubatus. (Acinonyx).....	396	kodiacensis. (Spermophilus p.)...	171
jubatus. (Cynailurus).....	396	Koiropotamus.....	32
jubatus. (Pteropus).....	492	Kolus.....	67
jubatus. (Semnopithecus).....	573	Korin.....	76
jucundum. (Dermanura).....	539	kuchingensis. (Sciurus p.).....	119
jugularis. (Nyctinomus).....	525	kudu. (Strepsiceros).....	88
		kuhli. (Nycticeius).....	515
kadiacensis. (Citellus p.).....	171, 172	kuhlii. (Scotophilus).....	515
kadiacensis. (Putorius a.).....	450		
kadiacensis. (Microtus).....	295	labecula. (Peromyscus).....	214
kadiacensis. (Spermophilus e.)...	172	labiatus. (Dicotyles).....	35
Kangurus.....	18	labiatus. (Halmaturus).....	20
Kangurus bruni.....	19	labiatus. (Kangurus).....	20
Kangurus giganteus.....	20	Laboura.....	360
Kangurus griseo-lanosus.....	19	labradorius. (Dipus).....	350
Kangurus labiatus.....	20	labradorius. (Meriones).....	352
Kangurus laniger.....	19	labradorius. (Ursus).....	430
Kangurus murinus.....	16	laceyi. (Reithrodontomys).....	261
Kangurus rufus.....	19	laceyi. (Rhithrodontomys).....	261
Kangurus ualabatus.....	19	Lacma.....	36
karkinophaga. (Didelphis).....	6	lacma. (Camelus).....	36
kelaarti. (Sciurus).....	112	laevis. (Ornithorhynchus).....	1
Kemas.....	73, 90	Lagidium.....	362
Kemas goral.....	91	Lagidium peruanum.....	361, 362
Kemas hodgsoni.....	73	Lagomys.....	365
kenaiensis. (Mustela).....	444	Lagomys minimus.....	366
kenaiensis. (Mustela a.).....	444	Lagomys schisticeps.....	365
kenaiensis. (Ovis d.).....	98	Lagostomus.....	362
kenguru. (Didelphis).....	19	Lagostomus trichodactylus.....	362
kennedyi. (Oreamnus).....	95	Lagostomus viscacha.....	362
kennicotii. (Arctomys).....	171	Lagotis.....	353
kerghelensis. (Cystophora).....	460	Lagotis cuvieri.....	362
kevella. (Antilope).....	76	lagotis. (Perameles).....	10
kevella. (Cerophorus).....	76	lagotis. (Thylacomys).....	10
Kiodotinae.....	495	lagura. (Phoca).....	463
kirki. (Ægoceros n.).....	83	Lagurus.....	286, 299
kirki. (Madoqua).....	66	Laira.....	443
kirkii. (Neotragus).....	66	lalandii. (Canis).....	407
klamathensis. (Reithrodontomys)...	259	lalandii. (Proteles).....	404
klamathensis. (Rhithrodontomys)...	259	Lama.....	36
klamathensis. (Sciuropterus a.)...	185	Lama glama.....	37
klamathensis. (Sciuropterus v.)...	185	Lama huanacha.....	36, 37
klippspringer. (Antilope).....	63	Lama huanachus.....	36
koala. (Phascolarctus).....	15	Lama pacos.....	37
koba. (Antilope).....	67	Lama vicugna.....	37
Kobus.....	67	lamia. (Pogonomys).....	198
Kobus ellipsiprymnus.....	67	lanatus. (Habrocebus).....	543
Kobus maria.....	69	lanea. (Felis).....	397
Kobus megaceros.....	69	langsдорffi. (Sciurus).....	121

	PAGE.		PAGE.
laniger. (Avahis).....	543	laticeps. (Thomomys).....	315
laniger. (Halmaturus).....	19	laticinctus. (Lepus).....	372
laniger. (Indris).....	543	latifrons. (Spilogale p.).....	440
laniger. (Kangurus).....	19	latimanus. (Scalops).....	481
laniger. (Lemur).....	543	latirostris. (Manatus).....	29
laniger. (Lichanotus).....	543	latirostris. (Perognathus).....	337
laniger. (Macropus).....	19	latrans. (Arctomys).....	180
laniger. (Microrhynchus).....	543	latrans. (Canis).....	409
laniger. (Mus).....	361, 362	leachii. (Monophylla).....	532
laniger. (Mycetes).....	554	lecontei. (Reithrodontomys).....	255
lanigerus. (Macropus).....	19	lecontii. (Mus).....	255
lanigerus. (Oosphranter).....	19	lecontii. (Rhithrodontomys).....	255
lanius. (Heterogeomys).....	313	lefebvrei. (Herpestes).....	403
lankadiva. (Hipposideros).....	498	Lemmomys.....	307
lapponicus. (Rangifer).....	40	Lemmomys talpinus.....	307
lar. (Homo).....	575	Lemmus.....	305
lar. (Simia).....	575	Lemmus alascensis.....	306
Laratus.....	575	Lemmus lemmus.....	306
largha. (Phoca).....	462	Lemmus noveboracensis.....	287
Laria.....	111	Lemmus trimucronatus.....	306
larvatus. (Cercopithecus)....	570, 571	lemmus. (Lemmus).....	306
larvatus. (Macrocephalus).....	34	lemmus. (Mus).....	305
larvatus. (Nasalis).....	571	lemniscatus. (Sciurus).....	109
larvatus. (Potamochærus).....	34	Lemnus.....	306
larvatus. (Rhinolophus).....	496	Lemur.....	543
larvatus. (Rhychopithecus).....	571	Lemur albifrons.....	544
Lasionycteris.....	505	Lemur albimanus.....	544
Lasionycteris noctivagans....	505, 506	Lemur anjuanensis.....	544
Lasiopyga nictitans.....	569	Lemur catta.....	543, 545
Lasiorhinus.....	10	Lemur collaris.....	544
lasiotis. (Macacus).....	567	Lemur flaviventer.....	544
Lasiurus.....	512	Lemur galago.....	549
Lasiurus borealis.....	512	Lemur griseus.....	546, 547
Lasiurus b. teliotis.....	513	Lemur indri.....	541
Lasiurus cinereus.....	513	Lemur laniger.....	543
Lasiurus funebris.....	512	Lemur macaco.....	543
Lasiurus intermedius.....	514	Lemur melanocephala.....	544
lasiurus. (Vespertilio).....	512	Lemur mongos.....	544
lasius. (Peromyscus).....	235	Lemur m. albifrons.....	544
Latax.....	455	Lemur m. rufifrons.....	544
Latax lutris.....	455, 456	Lemur murinus.....	548
Latax l. nereis.....	455	Lemur nigrifrons.....	544
Lataxia.....	454	Lemur pusillus.....	548
Lataxina.....	454	Lemur rubriventer.....	544
Lataxina mollis.....	454	Lemur rufifrons.....	544
lataxina. (Lutra).....	454	Lemur spectrum.....	551
lateralis. (Citellus).....	168	Lemur tarsius.....	550, 551
lateralis. (Sciurus).....	168	Lemur varius.....	543
lateralis. (Spermophilus).....	168	Lemur volans.....	464
laticaudatus. (Funambulus).....	111	Lemuridæ.....	541
laticaudatus. (Sciurus).....	111	lemurina. (Didelphis).....	12

	PAGE.		PAGE
lemurina. (Phalangista).....	12	Lepus auduboni sanctidiegi.....	372
Lemurinæ.....	543	Lepus bachmani.....	376
Lemuroidæ.....	541	Lepus b. ubericolor.....	377
Leo capensis.....	392	Lepus baileyi.....	374
Leo gambianus.....	392	Lepus bairdii.....	384
Leo guzeratensis.....	392	Lepus borealis.....	383
Leo nobilis.....	392	Lepus californica.....	381
leo. (Felis).....	391	Lepus californicus.....	381
leo. (Tigris).....	392	Lepus c. xanti.....	381
leonina. (Mirounga).....	460	Lepus callotis.....	379
leonina. (Phoca).....	457, 459, 460	Lepus c. flavigularis.....	379
leoninus. (Macrorhinus).....	460	Lepus campestris.....	383, 385
Leopardus.....	386	Lepus c. sierræ.....	385
Leopardus chinensis.....	388, 390	Lepus c. townsendi.....	385
Leopardus hernandezii.....	389	Lepus chilensis.....	361, 362
Leopardus japonensis.....	387	Lepus cinerascens.....	377
Leopardus javanensis.....	390	Lepus cuniculus.....	378
Leopardus pardus.....	388	Lepus durangæ.....	371
Leopardus perniger.....	387	Lepus europæus.....	382
Leopardus reevesi.....	390	Lepus flavigularis.....	379
Leopardus serval.....	391	Lepus floridanus.....	368
Leopardus varius.....	387	Lepus f. alacer.....	369
leopardus. (Felis).....	387	Lepus f. aztecus.....	370
leopardus. (Panthera).....	388	Lepus f. bachmani.....	376
Lepidolemur.....	547	Lepus f. chapmani.....	370
Lepidolemur microdon.....	547	Lepus f. connectens.....	370
Lepidolemur mustelinus.....	547	Lepus f. holzneri.....	371
Lepilemur.....	547	Lepus f. mallurus.....	368
Lepilemur dorsalis.....	547	Lepus f. mearnsi.....	369
Lepilemur murinus.....	548	Lepus f. persultator.....	371
Lepilemur mustelinus.....	547	Lepus f. rigidus.....	371
Leporidæ.....	366	Lepus f. sanctidiegi.....	371
leporina. (Aplodontia).....	188, 189	Lepus f. subcinctus.....	371
leporinus. (Sciurus).....	135	Lepus f. transitionalis.....	369
Leptoceros.....	75	Lepus f. ubericolor.....	377
leptorhynchus. (Tatusia).....	27	Lepus glacialis.....	383
lepturus. (Cynictis).....	404	Lepus grangeri.....	374
lepturus. (Vespertilio).....	519	Lepus g. pinetis.....	375
leptus. (Putorius s.).....	449	Lepus graysoni.....	376
Lepus.....	366, 382	Lepus grœnlandicus.....	383
Lepus alleni.....	378	Lepus holzneri.....	371
Lepus americanus.....	383	Lepus hudsonius.....	383
Lepus a. bairdi.....	384	Lepus insolitus.....	373
Lepus a. phænotus.....	384	Lepus laticinctus.....	372
Lepus a. washingtoni.....	384	Lepus l. perplicatus.....	373
Lepus aquaticus attwateri.....	367	Lepus l. rufipes.....	372
Lepus arcticus.....	383	Lepus martirensis.....	382
Lepus arizonæ.....	375	Lepus melanotis.....	380
Lepus a. major.....	375	Lepus merriami.....	379
Lepus a. minor.....	376	Lepus mexicanus.....	379
Lepus a. pinetis.....	375	Lepus nanus.....	383

	PAGE.		PAGE.
Lepus nigricaudatus.....	379	Leucodon.....	478
Lepus nuttalli.....	374	leucodon. (Sorex).....	478
Lepus n. mallurus.....	368	leucodon. (Thomomys).....	314
Lepus paludicola.....	367	leucogaster. (Cervus).....	50
Lepus palustris.....	367	leucogaster. (Hydromys).....	193
Lepus p. paludicola.....	367	leucogaster. (Hydromys c.).....	193
Lepus peninsularis.....	378	leucogaster. (Hypudæus).....	200
Lepus princeps.....	365	leucogaster. (Mochus).....	38
Lepus sanctidiegi.....	371, 372	leucogaster. (Onychomys).....	200
Lepus somalensis.....	382	leucogaster. (Petaurus).....	13
Lepus superciliaris.....	373	leucogaster. (Sciurus).....	127
Lepus sylvaticus.....	368	leucogenys. (Sciurus).....	109
Lepus s. alacer.....	369	Leucomitra.....	432, 435
Lepus s. arizonæ.....	375	leucomus. (Sciurus).....	118
Lepus s. aztecus.....	370	leuconota. (Mephitis).....	437
Lepus s. bachmani.....	370	leuconotus. (Conepatus).....	437
Lepus s. floridanus.....	368	leucophæus. (Aegoceros).....	82
Lepus s. grangeri.....	374	leucophæus. (Arvicola).....	298
Lepus s. holzneri.....	371	leucophæus. (Chæropithecus)....	564
Lepus s. mearnsii.....	369	leucophæus. (Cynocephalus)....	564
Lepus s. pinetis.....	375	leucophæus. (Hippotragus).....	82
Lepus s. transitionalis.....	369	leucophæus. (Microtus a.).....	298
Lepus telmalemonus.....	367	leucophæus. (Papio).....	564
Lepus texensis deserticola.....	380	leucoprymnus. (Bubalis).....	56
Lepus t. eremicus.....	380	leucops. (Sciurus).....	127, 129
Lepus texianus.....	379	leucops. (Sciurus a.).....	129
Lepus t. deserticola.....	380	leucopus. (Antilope).....	84
Lepus t. eremicus.....	380	leucopus. (Callithrix).....	553
Lepus timidus.....	366, 382	leucopus. (Hapale).....	553
Lepus t. arcticus.....	383	leucopus. (Musculus).....	208
Lepus townsendi.....	385	leucopus. (Mustela).....	443
Lepus trowbridgii.....	376	leucopus. (Peromyscus).....	208
Lepus truei.....	368	leucopyga. (Cavia).....	364
Lepus truii.....	368	leucoryx. (Oryx).....	83
Lepus veræcruis.....	373	leucotis. (Antilope).....	69
Lepus washingtonii.....	384	leucotis. (Arctogale).....	401
lervia. (Antilope).....	95	leucotis. (Arctogalidia).....	401
lervia. (Ovis).....	95	leucotis. (Cobus).....	69
leschenaultii. (Cervus).....	43	leucotis. (Paradoxurus).....	401
leschenaultii. (Pteropus).....	493	leucotis. (Sciurus).....	133
lessoni. (Halmaturus).....	19	leucotis. (Sciurus c.).....	133
lestes. (Canis).....	409	leucotis. (Sigmodon).....	248
lesueuri. (Amphisorex).....	467	leucotis. (Xenelaphus).....	52
lesueuri. (Bettongia).....	16	leucurus. (Citellus).....	161
lesueuri. (Hypsiprymnus).....	16	leucurus. (Spermophilus).....	161
leuciscus. (Hylobates).....	575	leucurus. (Tamias).....	161
leuciscus. (Simia).....	575	levallantii. (Mangusta).....	404
leucocephala. (Pithecia).....	556	leveriana. (Viverra).....	398
leucocephala. (Simia).....	556	levipes. (Peromyscus).....	241
Leucocydon.....	413	libycus. (Sus).....	31
leucodactylus. (Hesperomys)....	243	Lichanotus.....	543

	PAGE.		PAGE.
Lichanotus laniger.....	543	longicaudata. (Microgale).....	488
Lichanotus mitratus.....	541	longicaudata. (Talpa).....	481
lichtensteini. (Alcelaphus) ...	55, 56	longicaudata. (Tamandua).....	24
lichtensteini. (Antilope).....	56	longicaudatus. (Indris).....	543
lichtensteini. (Boselaphus).....	56	longicaudatus. (Molossus).....	522
lichtensteini. (Bubalis).....	56	longicaudatus. (Oryzomys).....	253
limitis. (Sciurus).....	124	longicaudus. (Arvicola).....	296
limitis. (Sciurus l.).....	124	longicaudus. (Dasypus).....	27
Limnolagus.....	366, 367	longicaudus. (Microtus).....	296
Limnotragus.....	86	longicaudus. (Putorius).....	451
Limnotragus gratus.....	87	longicaudus. (Reithrodontomys)..	258, 259
lineatum. (Phyllostoma).....	539	longicaudus. (Rhithrodontomys). 258	
lineatus. (Vampyrops).....	539	longicrus. (Myotis a.).....	504, 505
Linsang.....	399	longicrus. (Vespertilio).....	504
linsang. (Prionodon).....	399	longimembris. (Otognosis).....	334
linsang. (Viverra).....	399	longimembris. (Perognathus)....	334
Linx.....	386	longipes. (Dipodops).....	330
Liomys.....	344, 345	longipes. (Perodipus).....	330
Liomys p. isthmus.....	347	longipilis. (Arvicola r.).....	287
Liomys texensis.....	347	longipilis. (Tigris).....	387
Lipura.....	182	longirostris. (Glossophaga).....	532
lipura. (Trichys).....	361	Lophopithecus.....	571, 572
Lipurus.....	15	Lophotragus.....	39
Lipurus cinereus.....	15	Lophotus.....	577
lis. (Sciurus).....	115	loquax. (Sciurus h.).....	136
Lithocranius.....	80	lordi. (Abromys).....	335
Lithocranius sclateri.....	80	lordi. (Perognathus).....	335
Lithocranius walleri.....	80	lotor. (Procyon).....	425
Litocranius.....	80	lotor. (Ursus).....	425
Litocranius walleri.....	80	lowii. (Sciurus).....	118
littoralis. (Sigmodon h.).....	244	lucasii. (Cynopterus).....	495
littoralis. (Tamias t.).....	146	lucasii. (Ptenochirus).....	495
littorea. (Phoca).....	461	lucifer. (Pteropus).....	492
livingstoni. (Oreas c.).....	90	lucifugus. (Myotis).....	504
livingstonii. (Oreas).....	90	lucifugus. (Vespertilio).....	504
livingstonii. (Taurotragus o.)....	90	luctuosa. (Dorcopsis).....	17
livingstonii. (Taurotragus o.)....	90	luctuosus. (Halmaturus).....	17
Llacma.....	36	luctus. (Aquias).....	497
Llama guanacus.....	36	luctus. (Rhinolophus).....	497
lobatus. (Cervus).....	42	ludovicianus. (Arctomys).....	180
Lobostoma.....	525	ludovicianus. (Cynomys).....	180
Lobostoma cinnanomeum.....	526	ludovicianus. (Sciurus).....	124, 130
locrioides. (Sciurus).....	120	ludovicianus. (Sciurus n.).....	123
lokrioides. (Sciurus).....	120	lunata. (Antilope).....	56
Loncheres.....	354	lunata. (Damalis).....	56
Loncheres guianæ.....	355	lunatus. (Damaliscus).....	56, 57
longicauda. (Manis).....	28	lupaster. (Canis).....	408
longicauda. (Mustela).....	451	Lupulus.....	407, 408
longicauda. (Myrmecophaga)....	24	Lupus.....	407
longicauda. (Reithrodon).....	258	Lupus albus.....	412
longicauda. (Tamandua).....	24		

	PAGE.		PAGE.
Lupus anthus.....	408	macaco. (Lemur).....	543
Lupus ater.....	412	Macacus.....	566
Lupus griseus.....	412	Macacus assamensis.....	567
Lupus sticte.....	412	Macacus aureus.....	567
luscus. (Gulo).....	442	Macacus cinops.....	567
luscus. (Ursus).....	442	Macacus cristatus.....	567
luteiventris. (Tamias q.).....	154	Macacus fascicularis.....	567
lutescens. (Geomys).....	309	Macacus fur.....	567
lutescens. (Geomys b.).....	309	Macacus gelada.....	566
luteus. (Gulo).....	442	Macacus lasiotis.....	567
luteus. (Nycticejus).....	515	Macacus nemestrinus.....	567
Lutra.....	454	Macacus philippinensis.....	567
Lutra canadensis.....	454	Macacus rhesus.....	567
Lutra c. pacifica.....	454	machlis. (Alces).....	42
Lutra hudsonica.....	454	machrina. (Talpa).....	483
Lutra h. pacifica.....	454	machrinus. (Scalops a.).....	483
Lutra lataxina.....	454	machrinus. (Scalopus a.).....	483
Lutra marina.....	455	macleayii. (Chilonycteris).....	525
Lutra nair.....	454	Macrobates.....	577
Lutra roensis.....	454	Macrocephalus.....	32
Lutra stelleri.....	456	Macrocephalus africanus.....	33
Lutra vulgaris.....	454	Macrocephalus larvatus.....	34
lutra. (Mustela).....	454	macrocephalus. (Pteropus).....	490
lutreocephala. (Mustela).....	446	Macrocolus.....	322
lutreocephalus. (Putorius v.).....	446	Macrogeomys.....	313
Lutreola.....	446	Macrogeomys cherrii.....	313
lutreola. (Mustela).....	446	Macroglossus spelæus.....	495, 496
Lutrinæ.....	454	Macromerus.....	541
lutris. (Latax).....	455, 456	Macromerus typicus.....	541
lutris. (Mustela).....	455	macrophonus. (Putorius).....	453
Lutronectes whiteleyi.....	454	Macropodidæ.....	16
luzoniense. (Pachysoma).....	494	Macropodinae.....	17
Lycalopex.....	407	Macropus.....	18
Lycaon.....	406	Macropus frænatus.....	18
Lycaon pictus.....	406	Macropus frenatus.....	18
Lycaon tricolor.....	406	Macropus giganteus.....	18, 19, 20
Lyciscus.....	407	Macropus laniger.....	19
Lynceus.....	386	Macropus lanigerus.....	19
Lynchailurus.....	386	Macropus major.....	20
Lynchus.....	386	Macropus minor.....	16
Lynx.....	386, 394	Macropus mulleri.....	17
Lynx baileyi.....	395	Macropus ocydromus.....	20
Lynx canadensis.....	394	Macropus pictus.....	19
Lynx c. mollipilosa.....	394	Macropus ruber.....	19
Lynx fasciatus.....	395	Macropus rufescens.....	17
Lynx floridanus.....	396	Macropus rufus.....	19
Lynx r. californicus.....	396	Macropus thetidis.....	18
lysteri. (Sciurus).....	158	Macropus thetis.....	18
lysteri. (Tamias s.).....	158	Macropus ualabatus.....	19
Macaca.....	566	Macropus unguifer.....	18
		macropus. (Mus).....	197

	PAGE.		PAGE.
macrorhabdotes. (<i>Tamias</i>).....	148	Macroxus stangeri	108
Macrorhinus.....	459	Macroxus toupai	117
Macrorhinus angustirostris.....	460	Macroxus vittatus	117
Macrorhinus leoninus.....	460	macrura. (<i>Mephitis</i>).....	435
Macroscelides.....	465	macrura. (<i>Ratufa</i>).....	113
Macroscelides proboscideus.....	465	macrura. (<i>Vulpes p.</i>).....	414
Macroscelides revoili	465	macrurus. (<i>Microtus</i>).....	297
Macroscelides typus.....	465	macrurus. (<i>Petaurus</i>).....	13
Macroscelididæ.....	465	maculata.	405
macrospilotus. (<i>Citellus s.</i>).....	163	maculata. (<i>Viverra</i>).....	9
macrospilotus. (<i>Spermophilus s.</i>)	163	maculatus. (<i>Dasyurus</i>).....	9, 10
Macroteropus.....	550	maculatus. (<i>Sciurus</i>).....	115
Macroteropus buffoni.....	551	maculiventer. (<i>Oryzomys</i>).....	252
Macroteropus.....	10, 46	madagascariensis. (<i>Cheiomys</i>) ..	552
macroteropus. (<i>Cervus</i>).....	49	madagascariensis. (<i>Crociodura</i>) ...	479
macroteropus. (<i>Neotoma</i>).....	264	madagascariensis. (<i>Daubentonia</i>)	552
macroteropus. (<i>Neotoma f.</i>).....	264, 265	madagascariensis. (<i>Erinaceus</i>)...:	487
macroteropus. (<i>Onychomys</i>).....	202	madagascariensis. (<i>Hemicentetes</i>)	487
macroteropus. (<i>Plecotus</i>).....	517	madagascariensis. (<i>Sciurus</i>).....	552
macroteropus. (<i>Vulpes</i>).....	415	madagascariensis. (<i>Sorex</i>).....	479
Macroteropus.....	366, 378	Madateus	535
Macroteropus.....	527	Madoqua.....	64
Macroteropus bocourtianus	528	Madoqua cavendishi.....	67
Macroteropus bulleri.....	528	Madoqua damarensis.....	66
Macroteropus mexicanus.....	528	Madoqua guntheri.....	66
Macroteropus waterhousii.....	527	Madoqua kirki.....	66
macroura. (<i>Condylura</i>).....	481	Madoqua phillipsi.....	65
macroura. (<i>Didelphis</i>).....	13	Madoqua saltiana.....	64
macroura. (<i>Felis</i>).....	390	Madoqua swaynei.....	65
macroura. (<i>Manis</i>).....	28	Madoqua swainii.....	65
macroura. (<i>Mephitis</i>).....	435	madoqua. (<i>Cephalophus</i>).....	62
macroura. (<i>Sciurus</i>).....	124	madoqua. (<i>Antelope</i>).....	61, 64
macroura. (<i>Vulpes f.</i>).....	414	madrensis. (<i>Neotoma m.</i>).....	271
macrourus. (<i>Dasyurus</i>).....	10	magnicaudatus. (<i>Sciurus</i>).....	124
macrourus. (<i>Mus</i>).....	197	Magus.....	566
macrourus. (<i>Sciurus</i>).....	113	maimon. (<i>Mormon</i>).....	563
macrourus. (<i>Spermophilus</i>).....	175	maimon. (<i>Papio</i>).....	563
macrourus. (<i>Vulpes</i>).....	414	maimon. (<i>Simia</i>).....	563
Macroxus.....	114, 116	major. (<i>Bdelygma</i>).....	495
Macroxus a. frerei.....	110	major. (<i>Cheirogaleus</i>).....	548
Macroxus griseoflavus.....	130	major. (<i>Harpyia</i>).....	495
Macroxus maurus.....	128	major. (<i>Lepus a.</i>).....	375
Macroxus melania	131	major. (<i>Macropus</i>).....	20
Macroxus morio.....	128	major. (<i>Neurotrichus g.</i>).....	480
Macroxus neglectus.....	125	major. (<i>Peromyscus</i>).....	232, 233
Macroxus pluto.....	119	major. (<i>Sitomys</i>).....	232
Macroxus poensis.....	110	majori. (<i>Eliurus</i>).....	199
Macroxus punctatissimus.....	116	malabaricus. (<i>Sciurus</i>).....	112
Macroxus pyrrhopus.....	109	malaccensis. (<i>Viverra</i>).....	398
Macroxus rufobrachiatu.....	115	malaccensis. (<i>Viverricula</i>).....	398
Macroxus similis.....	120	malayanus. (<i>Helarctos</i>).....	423

	PAGE.
malayanus. (Tapirus).....	101
malayanus. (Ursus).....	422, 423
mallurus. (Lepus f.).....	368
mallurus. (Lepus n.).....	368
Manatus.....	29
Manatus americanus.....	30
Manatus australis.....	29
Manatus fluviatilis.....	30
Manatus latirostris.....	29
manatus. (Trichechus).....	29
Mandrill.....	562
Mangusta.....	401
Mangusta leuallantii.....	404
Manidae.....	27
Manis.....	27
Manis africana.....	28
Manis longicauda.....	28
Manis macroura.....	28
Manis multiscutata.....	28
Manis pentadactyla.....	27
Manis 4-dactylus.....	28
Manis tetradactyla.....	28
Manis tricuspid.....	28
Manis tridentata.....	28
mapurito. (Conepatus).....	437
marchei. (Mydaus).....	432
marchei. (Sus).....	32
marchii. (Mydaus).....	432
Margay.....	386
marginata. (Eleutherura).....	493, 494
marginatus. (Cynopterus).....	493
marginatus. (Pteropus).....	493
maria. (Cobus).....	69
maria. (Kobus).....	69
marica. (Marmosa).....	4
marina. (Lutra).....	455
maritimus. (Bathyergus).....	348
maritimus. (Mus).....	348
maritimus. (Ursus).....	420
Marmosa.....	3
Marmosa chapmani.....	4
Marmosa cinerea.....	4
Marmosa marica.....	4
Marmosa murina.....	3
Marmosa m. mexicana.....	3
Marmosa pusilla.....	4
Marmota.....	182
Marmota flaviventer.....	183
Marmota monax.....	182
Marmota m. canadensis.....	183
Marmota olympus.....	184

	PAGE.
Marputius.....	437, 438
Marsipolæmus.....	509
Marsupialia.....	3
marsupialis. (Antidorcas).....	75
marsupialis. (Antilope).....	75
marsupialis. (Didelphis).....	6
marsupialis. (Didelphys).....	6
Martes flavigula.....	445
Martes melanopus.....	446
martes. (Mustela).....	443
martini. (Cercopithecus).....	569
martini. (Rhinolophus).....	499
martirensis. (Lepus).....	382
martirensis. (Peromyscus).....	237
martirensis. (Sitomys).....	237
martirensis. (Spilogale a.).....	441
martirensis. (Thomomys).....	318
martirensis. (Thomomys f.).....	318
mascotensis. (Sigmodon).....	246
mascotensis. (Sigmodon h.).....	246
maura. (Simia).....	572
maurus. (Macroxus).....	128
maxima. (Ratufa i.).....	112
maximus. (Dipus).....	362
maximus. (Elephas).....	106
maximus. (Perognathus h.).....	337
maximus. (Phyllostomus).....	530
maximus. (Sciurus).....	112
maxwelli. (Cephalophus).....	61
Mazama.....	45, 50, 51
Mazama sartori.....	51
mearnsi. (Canis).....	409
mearnsi. (Conepatus m.).....	437
mearnsi. (Lepus f.).....	369
mearnsi. (Perognathus).....	331
mearnsi. (Peromyscus).....	226
mearnsi. (Sciurus d.).....	142
mearnsi. (Sciurus h.).....	142
mearnsii. (Lepus s.).....	369
mearnsii. (Vesperimus).....	226
medius. (Peromyscus t.).....	221, 222
megabalia. (Felis).....	397
Megaceros.....	44
megaceros. (Hircus).....	93
megaceros. (Kobus).....	69
Megadermineæ.....	499
Megaderma.....	499
Megaderma gigas.....	499
Megadontomys.....	243
Megadontomys flavidus.....	243
megalogotis. (Canis).....	407

	PAGE.		PAGE.
megalotis. (Dorcotragus).....	81	meles. (Meles).....	432
megalotis. (Micronycteris).....	529	meles. (Ursus).....	432
megalotis. (Oreotragus).....	81	Melinæ.....	430
megalotis. (Otocyon).....	407	meliceps. (Mydaus).....	431
megalotis. (Phyllophora).....	529	Melonycteris.....	496
megalotis. (Reithrodon).....	257	Melonycteris melanops.....	496
megalotis. (Reithrodontomys)...	257	Meminna.....	37
megalotis. (Rhithrodontomys)...	257	Meminna indica.....	37
megalotus. (Cerculeptes).....	430	meminna. (Moschus).....	37
megalotus. (Potos f.).....	430	meminna. (Tragulus).....	37
Megascapheus.....	313	mengesi. (Capra).....	92
melampeplus. (Putorius).....	447	mephitica. (Mephitis).....	432, 433
melampeplus. (Putorius v.).....	447	Mephitis.....	432
melampus. (Antilope).....	71, 72	Mephitis a. hudsonica.....	433
melampus. (Æpyceras).....	72	Mephitis avia.....	434
melampus. (Æpyceros).....	72	Mephitis bicolor.....	438
melampus. (Canis).....	408	Mephitis elongata.....	433
melampus. (Mustela).....	446	Mephitis fetidissima.....	433
melania. (Macroxus).....	131	Mephitis foetulenta.....	435
melania. (Sciurus).....	131	Mephitis hudsonia.....	433
melanocephala. (Lemur).....	544	Mephitis interrupta.....	438
melanocephala. (Prosimia).....	544	Mephitis leuconota.....	437
melanotus. (Sciurus n.).....	122	Mephitis macroura.....	435
melanopogon. (Pteropus).....	402	Mephitis macrura.....	435
melanops. (Eptesicus).....	509	Mephitis m. milleri.....	436, 437
melanops. (Melonycteris).....	496	Mephitis mephitica.....	432, 433
melanops. (Thomomys).....	317	Mephitis m. elongata.....	433
melanopus. (Arctomys).....	183	Mephitis m. hudsonia.....	433
melanopus. (Martes).....	446	Mephitis mephitis.....	432
melanorheus. (Antilope).....	61	Mephitis mesomelas.....	434
melanorheus. (Cephalolophus)...	61	Mephitis m. avia.....	434
melanorheus. (Cephalophus)....	61	Mephitis m. estor.....	434
melanorhinus. (Vespertilio).....	503	Mephitis m. varians.....	434
melanorhyncha. (Mustela).....	445	Mephitis milleri.....	436
melanostomus. (Canis).....	408	Mephitis occidentalis.....	434
melanotis. (Chirogale).....	548	Mephitis o. holzneri.....	435
melanotis. (Chirogaleus).....	548	Mephitis o. spissigrada.....	435
melanotis. (Hypsiprymnus).....	17	Mephitis olida.....	433
melanotis. (Lepus).....	380	Mephitis platyrhina.....	435
melanotis. (Oryzomys).....	252	Mephitis putida.....	433
melanotis. (Peromyscus).....	240	Mephitis quaterlinearis.....	439
melanotis. (Sciurus).....	107	Mephitis spissigrada.....	435
melanura. (Phalangista).....	12	mephitis. (Mephitis).....	432
melas. (Cervus).....	39	mephitis. (Viverra).....	432
melas. (Felis).....	387	mergens. (Antilope).....	62
Meles.....	432	mergens. (Cephalophus).....	62
Meles europæus.....	432	meridensis. (Oryzomys).....	252
Meles jeffersoni.....	430	meridianus. (Dipus).....	193
Meles meles.....	432	Meriones.....	193, 350
Meles taxus.....	432	Meriones acadicus.....	350
Meles t. americanus.....	430	Meriones labradorius.....	352

	PAGE.
Meriones microcephalus.....	350
Meriones shawi.....	193
merriami. (Dipodomys).....	322
merriami. (Geomys).....	310
merriami. (Lepus).....	379
merriami. (Perognathus).....	331
merriami. (Tamias).....	146
merriami. (Tamias a.).....	146
merriami. (Vesperugo).....	506
mesamericana. (Didelphis).....	7
mesamericana. (Didelphys).....	7
mesembrinus. (Perognathus) ...	335
Mesoberna.....	402
mesomelas. (Canis).....	407
mesomelas. (Mephitis).....	434
mesomelas. (Thous).....	407
mesopolius. (Perognathus f.) ...	342
Metachirus.....	5
Metachirus f. pallidus.....	6
Metachirus opossum.....	6
metallescens. (Scalops).....	481
metallicola. (Peromyscus).....	206
Metatheria.....	3
Meteoros.....	509
mexicana. (Alouatta p.).....	555
mexicana. (Antilocapra a.).....	53
mexicana. (Chæronycteris).....	533
mexicana. (Dasypsecta).....	363
mexicana. (Hystrix).....	360
mexicana. (Marmosa m.).....	3
mexicana. (Micronycteris m.)....	529
mexicana. (Neotoma).....	270
mexicanum. (Coendu).....	360
mexicanus. (Arvicola).....	298
mexicanus. (Canis).....	411
mexicanus. (Cervus).....	46
mexicanus. (Citellus).....	163
mexicanus. (Hesperomys).....	242
mexicanus. (Lepus).....	379
mexicanus. (Macrotus).....	528
mexicanus. (Microtus).....	298
mexicanus. (Nyctinomus).....	523
mexicanus. (Otopterus).....	528
mexicanus. (Peromyscus).....	242
mexicanus. (Sciurus).....	165
mexicanus. (Spermophilus).....	165
michiganensis. (Mus).....	239
michiganensis. (Peromyscus) ...	239
Micoureus.....	3
Micoureus cinereus.....	4
Microcebus.....	548

	PAGE.
Microcebus murinus.....	548
microcephalus. (Arvicola).....	290
microcephalus. (Meriones).....	350
Microdidelphis.....	3
microdon. (Lepidolemur).....	547
Microgale.....	488
Microgale cowani.....	488
Microgale c. nigrescens.....	488
Microgale dobsoni.....	488
Microgale longicaudata.....	488
Microgale pusillus.....	488
Microlagus.....	366, 376
Micronycteris.....	529
Micronycteris megalotis.....	529
Micronycteris m. mexicana.....	529
Micronycteris m. mexicanus.....	529
microphthalmus. (Spalax).....	307
micropus. (Natalus).....	525
micropus. (Neotoma).....	267
Microtrichus.....	543
Microtrichus laniger.....	543
Microsciurus.....	114
Microsorex.....	472
Microsorex hoyi.....	472
Microtinae.....	282
Microtus.....	286, 287
Microtus abbreviatus.....	295
Microtus alleni.....	303
Microtus alticola.....	298
Microtus a. leucophæus.....	298
Microtus angusticeps.....	297
Microtus austerus.....	299, 300
Microtus californicus.....	292
Microtus c. constrictus.....	294
Microtus c. hyperythrus.....	292
Microtus c. vallicola.....	293
Microtus canicaudus.....	291
Microtus cautus.....	296
Microtus curtatus.....	299
Microtus drummondi.....	290
Microtus dutcheri.....	291
Microtus edax.....	294
Microtus fontigenus.....	289
Microtus kadiacensis.....	295
Microtus longicaudus.....	296
Microtus macrurus.....	297
Microtus mexicanus.....	298
Microtus m. phæus.....	299
Microtus minor.....	300
Microtus mogollonensis.....	299
Microtus mordax.....	296

	PAGE.		PAGE.
<i>Microtus nanus</i>	290	<i>Miniopterus</i>	516
<i>Microtus n. canescens</i>	291	<i>Miniopterus</i>	516
<i>Microtus nemoralis</i>	301	<i>Miniopterus minor</i>	517
<i>Microtus oregoni</i>	301, 302	<i>Miniopterus schreibersii</i>	516
<i>Microtus pennsylvanicus</i>	287	<i>Miniopterus scotinus</i>	516
<i>Microtus p. acadicus</i>	289	<i>Miniopterus ursinii</i>	516
<i>Microtus p. fontigenus</i>	289	<i>Minneopterus</i>	516
<i>Microtus p. modestus</i>	289	<i>minnesota</i> . (<i>Sciurus h.</i>).....	138
<i>Microtus pinetorum</i>	300	<i>minnesotæ</i> . (<i>Peromyscus l.</i>).....	213
<i>Microtus p. nemoralis</i>	301	<i>minor</i> . (<i>Arvicola</i>).....	300
<i>Microtus principalis</i>	302	<i>minor</i> . (<i>Eliurus</i>).....	199
<i>Microtus pumilus</i>	282	<i>minor</i> . (<i>Galago</i>).....	548
<i>Microtus quasiater</i>	301	<i>minor</i> . (<i>Macropus</i>).....	16
<i>Microtus r. arvicoloides</i>	302	<i>minor</i> . (<i>Microtus</i>).....	300
<i>Microtus schermaus</i>	302	<i>minor</i> . (<i>Miniopterus</i>).....	517
<i>Microtus serpens</i>	302	<i>minor</i> . (<i>Phalangista</i>).....	11
<i>Microtus stonei</i>	290	<i>minor</i> . (<i>Zapus p.</i>).....	351
<i>Microtus terrænovæ</i>	290	<i>minuta</i> . (<i>Felis</i>).....	390
<i>Microtus townsendi</i>	295, 296	<i>minuta</i> . (<i>Tatusia</i>).....	25
<i>Microtus u. popofensis</i>	295	<i>minuta</i> . (<i>Vespertilio</i>).....	512
<i>Microtus vellerosus</i>	296	<i>minutus</i> . (<i>Dasyus</i>).....	25
<i>Microtus yakutatensis</i>	295	<i>minutus</i> . (<i>Euphractus</i>).....	26
<i>microtus</i> . (<i>Canis</i>).....	415	<i>minutus</i> . (<i>Hesperomys</i>).....	254
<i>Micrurus</i>	286	<i>minutus</i> . (<i>Oryzomys</i>).....	254
<i>micrurus</i> . (<i>Galemys</i>).....	474	<i>minutus</i> . (<i>Scotophilus</i>).....	512
<i>Midas</i>	553	<i>minutus</i> . (<i>Vespertilio</i>).....	512
<i>Midas devillei</i>	554	<i>minx</i> . (<i>Mustela</i>).....	446
<i>Midas illigeri</i>	554	<i>Miopithecus</i>	568
<i>middendorffi</i> . (<i>Ursus</i>).....	420	<i>miradorensis</i> . (<i>Scotophilus</i>).....	511
<i>migratorius</i> . (<i>Sciurus</i>).....	133	<i>miradorensis</i> . (<i>Vespertilio f.</i>).....	511
<i>milleri</i> . (<i>Mephitis</i>).....	436	<i>Mirounga</i>	459
<i>milleri</i> . (<i>Mephitis m.</i>).....	436, 437	<i>Mirounga angustirostris</i>	460
<i>milleri</i> (<i>Myotis</i>).....	501	<i>Mirounga leonina</i>	460
<i>milne-edwardsi</i> . (<i>Nemorhædus</i>)..	91	<i>Mirounga patagonica</i>	460
<i>milne-edwardsii</i> . (<i>Capricornis</i>)...	91	<i>Mirounga proboscidea</i>	460
<i>Mimetes</i>	577	<i>Mirza</i>	548
<i>minor</i> . (<i>Lepus a.</i>).....	376	<i>Misothermus</i>	306
<i>mincæ</i> . (<i>Echimys</i>).....	355	<i>missouriensis</i> . (<i>Arctomys</i>).....	180
<i>mincæ</i> . (<i>Proechimys</i>).....	355	<i>missouriensis</i> . (<i>Mus</i>).....	200
<i>mincæ</i> . (<i>Proechinomys</i>).....	355	<i>mitis</i> . (<i>Felis</i>).....	390
<i>mindanensis</i> . (<i>Sciurus</i>).....	118	<i>mitrata</i> . (<i>Presbytis</i>).....	571
<i>mindorensis</i> . (<i>Anoa</i>).....	99	<i>mitratus</i> . (<i>Lichanotus</i>).....	541
<i>mindorensis</i> . (<i>Bos</i>).....	99	<i>mobilis</i> . (<i>Geomys t.</i>).....	308
<i>mindorensis</i> . (<i>Bubalus</i>).....	99	<i>Mochus leucogaster</i>	38
<i>mindorensis</i> . (<i>Probubalus</i>).....	99	<i>modesta</i> . (<i>Arvicola</i>).....	289
<i>miniatus</i> . (<i>Sciurus n.</i>).....	117	<i>modestus</i> . (<i>Microtus p.</i>).....	289
<i>minima</i> . (<i>Ochotona</i>).....	366	<i>modestus</i> . (<i>Sciurus</i>).....	120
<i>minimus</i> . (<i>Lagomys</i>).....	366	<i>mogollonensis</i> . (<i>Arvicola</i>).....	299
<i>minimus</i> . (<i>Ochotona</i>).....	366	<i>mogollonensis</i> . (<i>Microtus</i>).....	299
<i>minimus</i> . (<i>Sigmodon</i>).....	248	<i>mogollonensis</i> . (<i>Sciurus f.</i>).....	142
<i>minimus</i> . (<i>Tamias</i>).....	156	<i>mogollonensis</i> . (<i>Sciurus h.</i>).....	142

	PAGE.
mohavensis. (Citellus t.).....	165
mohavensis. (Neotoma).....	267
mohavensis. (Neotoma f.).....	267
mohavensis. (Nyctinomus).....	523
mohavensis. (Spermophilus).....	165
molestus. (Oryzomys).....	250
mollipilosa. (Felis c.).....	394
mollipilosa. (Lynx c.).....	394
mollipilosus. (Sciurus).....	140
mollipilosus. (Sciurus d).....	140
mollis. (Lataxina).....	454
Molossidæ.....	521
Molossinæ.....	521
Molossus.....	521
Molossus acetabulosus.....	524
Molossus acuticaudatus.....	522
Molossus aztecus.....	522
Molossus fuliginosus.....	522
Molossus longicaudatus.....	522
Molossus nigricans.....	522
Molossus obscurus.....	521
Molossus pretiosus.....	522
Molossus rufus.....	521
Molossus r. obscurus.....	521, 522
molucca. (Didelphis).....	11
moluccensis. (Hypoderma).....	494
Mona.....	568
mona. (Cercopithecus).....	568
monachus. (Vespertilio).....	512
Monax.....	180
monax. (Arctomys).....	182
monax. (Marmota).....	182
monax. (Mus).....	182
mongolica. (Felis t.).....	386
mongos. (Lemur).....	544
Monichus.....	568, 569
monochroua. (Neotoma).....	264
Monophylla leachii.....	532
Monophyllus.....	533
Monophyllus cubanus.....	534
Monophyllus redmani.....	533
Monotremata.....	1
montana. (Antelope).....	63
montana. (Canis v.).....	416
montana. (Ourebia).....	63, 64
montana. (Redunca).....	63
montanus. (Calotragus).....	63
montanus. (Equus).....	103
montanus. (Nanotragus).....	64
montanus. (Oreamnus).....	94
montanus. (Ovis).....	94

	PAGE.
montanus. (Rangifer).....	40
montanus. (Scopophorus).....	64
montanus. (Tragelaphus).....	63
montereyensis. (Sorex).....	470
monteriensis. (Arctocephalus).....	457
monticola. (Antelope).....	62
monticola. (Cephalolophus).....	62
monticola. (Cephalophus).....	62
monticola. (Emballonura).....	519
monticola. (Thomomys).....	315
monticolus. (Thomomys).....	315
montipinoris. (Peromyscus).....	235
mordax. (Arvicola).....	296
mordax. (Microtus).....	296
morio. (Macroxus).....	128
morio. (Rhinolophus).....	497
Mormon.....	562
Mormon maimon.....	563
mormon. (Papio).....	563
Mormoops.....	526
Mormoops blainvillii.....	526
Mormoops intermedia.....	527
Mormopinæ.....	525
Mormops.....	526
Mormops b. cinnamomea.....	526
Mormops intermedia.....	527
Morodactylus.....	15
Morodactylus cinereus.....	15
mortivallis. (Dipodomys m.).....	325
Morunga.....	460
Morunga elephantina.....	460
Morunga proboscidea.....	460
moschata. (Desmana).....	479
moschata. (Sorex).....	479
moschatus. (Bos).....	98
moschatus. (Bubalus).....	99
moschatus. (Castor).....	479
moschatus. (Cervulus).....	39
moschatus. (Ovibos).....	98
moschiferus. (Moschus).....	38
Moschinæ.....	38
Moschomys.....	303
Moschus.....	38
Moschus chrysogaster.....	38
Moschus grimmia.....	62
Moschus meminna.....	37
Moschus moschiferus.....	38
Moschus m. altaicus.....	38
Moschus m. fasciatus.....	38
Moschus saturatus.....	38
Moschus sibiricus.....	38

	PAGE.		PAGE.
Mosia.....	518	Mus decumanus.....	194
Mosia nigrescens.....	519	Mus empetra.....	183
Moustac.....	569	Mus floridana.....	263, 269
mulleri. (Hylobates).....	575	Mus hudsonius.....	306
mulleri. (Macropus).....	17	Mus jaculus.....	353
mulleri. (Phoca).....	463	Mus laniger.....	361, 362
multiscutata. (Manis).....	28	Mus leontii.....	255
mundus. (Putorius x.).....	452	Mus lemmus.....	305
mungo. (Herpestes).....	402	Mus macropus.....	197
mungo. (Mungos).....	402	Mus macrourus.....	197
mungo. (Viverra).....	402	Mus maritimus.....	348
Mungos.....	401	Mus michiganensis.....	239
Mungos gracilis.....	403	Mus missouriensis.....	200
Mungos mungo.....	402	Mus monax.....	182
Mungosinæ.....	401	Mus musculus.....	196
Muntiacus.....	38	Mus nasutus.....	263
Muntiacus muntjac.....	38	Mus nitedula.....	192
muntjac. (Muntiacus).....	38	Mus norvegicus.....	194
muntjacus. (Stylloceros).....	39	Mus paca.....	364
muntjak. (Cervus).....	38	Mus palustris.....	249
Muridæ.....	192	Mus pennsylvanica.....	287
Murilemur.....	548	Mus porcellus.....	364
Murilemur murinus.....	548	Mus rattus.....	193, 194
murina. (Didelphis).....	3, 4, 16	Mus rufescens.....	195
murina. (Marmosa).....	3	Mus rutilus.....	283
Murine.....	193	Mus saccatus.....	309
murinus. (Desmodus).....	540	Mus squamipes.....	244
murinus. (Kangurus).....	16	Mus subtilis.....	349
murinus. (Lemur).....	548	Mus suillus.....	348
murinus. (Lepilemur).....	548	Mus sylvaticus.....	196
murinus. (Microcebus).....	548	Mus s. noveboracensis.....	202, 210
murinus. (Murilemur).....	548	Mus talpinus.....	307
murinus. (Vespertilio).....	499, 509	Mus tuza.....	308
Mus.....	182, 193	Mus vagus.....	349
Mus a. americanus.....	208	Mus volans.....	186
Mus aguti.....	364	musanga. (Paradoxurus).....	400
Mus alexandrinus.....	195	Muscardinidæ.....	191
Mus a. rufescens.....	196	Muscardininæ.....	191
Mus anomalus.....	344, 345	musculus. (Didelphys).....	3
Mus arvalis.....	286	Musculus leucopus.....	208
Mus aureolus.....	238	musculus. (Mus).....	196
Mus betulinus.....	349	Musimon argali.....	98
Mus brasiliensis.....	244	Musimon nahoor.....	95
Mus bursarius.....	309	Musimon tragelaphus.....	96
Mus cafer.....	353	musimon. (Aegoceros).....	98
Mus californicus.....	205	musimon. (Ovis).....	98
Mus capensis.....	348	musmon. (Capra).....	98
Mus cinerea.....	277	Mustela.....	443
Mus citellus.....	160	Mustela americana.....	443
Mus coypus.....	356	Mustela a. actiosa.....	444
Mus cricetus.....	198	Mustela a. kenaiensis.....	444

	PAGE.		PAGE.
<i>Mustela americanus</i>	443	<i>Mycetes chrysurus</i>	554
<i>Mustela barbara</i>	442, 443	<i>Mycetes laniger</i>	554
<i>Mustela boria</i>	444	<i>Mycetes palliatus</i>	555
<i>Mustela canadensis</i>	444, 446, 454	<i>Mycetes seniculus</i>	554
<i>Mustela c. pacifica</i>	445	<i>Mycetes stramineus</i>	554
<i>Mustela caurina origenes</i>	444	<i>Mydaus</i>	431
<i>Mustela cicognanii</i>	448	<i>Mydaus marchei</i>	432
<i>Mustela erminea</i>	451	<i>Mydaus marchii</i>	432
<i>Mustela flavigula</i>	445	<i>Mydaus meliceps</i>	431
<i>Mustela foina</i>	445	<i>Mydaus schadenbergii</i>	432
<i>Mustela frenata</i>	453	<i>Mygale</i>	479
<i>Mustela godmani</i>	445	<i>Mygalus</i>	479
<i>Mustela gulo</i>	442	<i>Mynomes</i>	286
<i>Mustela henrici</i>	445	<i>Mynomes pratensis</i>	287
<i>Mustela huro</i>	443	<i>Myocastor</i>	356
<i>Mustela kenaiensis</i>	444	<i>Myocastor coypus</i>	356
<i>Mustela leucopus</i>	443	<i>Myodes</i>	305
<i>Mustela longicauda</i>	451	<i>Myodes albigularis</i>	306
<i>Mustela lutra</i>	454	<i>myodes</i> . (<i>Peromyscus l.</i>).....	210
<i>Mustela l. canadensis</i>	454	<i>Myogale</i>	479
<i>Mustela lutrecephala</i>	446	<i>Myogalea</i>	479
<i>Mustela lutreola</i>	446	<i>myoides</i> . (<i>Cricetus</i>).....	210
<i>Mustela lutris</i>	455	<i>myoides</i> . (<i>Hesperomys</i>).....	217
<i>Mustela martes</i>	443	<i>myoides</i> . (<i>Sorex</i>).....	478
<i>Mustela melampus</i>	446	<i>Myolemmus</i>	306
<i>Mustela melanorhyncha</i>	445	<i>Myopotamus</i>	356
<i>Mustela minx</i>	446	<i>Myoprocta</i>	363
<i>Mustela nigra</i>	445	<i>Myorus</i>	191
<i>Mustela novæ-hollandiæ</i>	10	<i>Myoscalops</i>	348
<i>Mustela pennanti</i>	445	<i>Myoscalops argenteo-cinereus</i>	348
<i>Mustela p. pacifica</i>	445	<i>Myosictis</i>	478
<i>Mustela putorius</i>	446	<i>myosura</i> . (<i>Myrmecophaga</i>).....	23
<i>Mustela richardsonii</i>	448	<i>myosurus</i> . (<i>Hypsiprymnus</i>).....	16
<i>Mustela vison</i>	446	<i>Myotis</i>	499
<i>Mustela vulgaris</i>	448	<i>Myotis californicus</i>	502, 503
<i>Mustela vulpina</i>	443	<i>Myotis c. caurinus</i>	503
<i>Mustela winingus</i>	446	<i>Myotis c. pallidus</i>	503
<i>Mustela xanthogenys</i>	452	<i>Myotis evotis</i>	501
<i>Mustela zibellina</i>	443	<i>Myotis e. thysanodes</i>	505
<i>Mustelidae</i>	430	<i>Myotis lucifugus</i>	504
<i>Mustelinæ</i>	442	<i>Myotis l. longicrus</i>	504, 505
<i>mustelinus</i> . (<i>Lepidolemur</i>).....	547	<i>Myotis milleri</i>	501
<i>mustelinus</i> . (<i>Lepilemur</i>).....	547	<i>Myotis nigricans</i>	501
<i>mustelinus</i> . (<i>Sciurus</i>).....	127	<i>Myotis orinomus</i>	502
<i>muswa</i> . (<i>Alces</i>).....	42	<i>Myotis subulatus</i>	504
<i>mutgigella</i> . (<i>Herpestes</i>).....	403	<i>Myotis thysanodes</i>	505
<i>mutica</i> . (<i>Glossophaga</i>).....	531	<i>Myotis velifer</i>	500
<i>mutscheltschela</i> . (<i>Herpestes</i>) ..	403	<i>Myotis yumanensis</i>	501
<i>Mycetes</i>	554	<i>Myotis y. saturatus</i>	502
<i>Mycetes auratus</i>	554	<i>myotis</i> . (<i>Vespertilio</i>).....	499
<i>Mycetes bicolor</i>	554	<i>myoxinus</i> . (<i>Eliurus</i>).....	199

	PAGE.		PAGE
Myoxus.....	191	Nasua nasica.....	427
Myoxus chrysurus.....	354	nasua. (Viverra).....	427
Myoxus drummondi.....	277, 278	nasuta. (Arvicola).....	287
Myoxus dryas.....	192	nasutus. (Mus).....	263
Myoxus nitela.....	192	nasutus. (Oxymycterus).....	263
Myrmecolichnus.....	22	nasutus. (Peromyscus t.).....	237
Myrmecophaga.....	24	nasutus. (Vesperimus).....	237
Myrmecophaga aculeata.....	2	natalensis. (Nyctinomus).....	524
Myrmecophaga crispus.....	23	natalensis. (Vespertilio).....	516
Myrmecophaga didactyla.....	22	Natalus brevimanus.....	525
Myrmecophaga longicauda.....	24	Natalus micropus.....	525
Myrmecophaga myosura.....	23	natator. (Oryzomys).....	249
Myrmecophaga quadridactyla.....	24	natator. (Oryzomys p.).....	249
Myrmecophaga tetradactyla.....	23	natglasii. (Graphiurus).....	192
Myrmecophaga tridactyla.....	24	navigator. (Neosorex).....	473
Myrmecophagidæ.....	22	navigator. (Neosorex p.).....	473
Myrmydon.....	22	nayaritensis. (Sciurus).....	122
Myspithacus.....	548	nayaur. (Ovis).....	95
mystax. (Funisciurus).....	109	nebracensis. (Canis).....	409
Næmorhedus.....	90	nebrascensis. (Hesperomys l.).....	220
Nagor.....	70	nebrascensis. (Peromyscus t.).....	220
nahoor. (Musimon).....	95	nebrascensis. (Reithrodontomys d.).....	256
nahoor. (Ovis).....	95	nebrascensis. (Rhithrodontomys d.).....	256
nahoor. (Pseudois).....	95	necator. (Vulpes).....	414
nahura. (Ovis).....	95	Nectomys.....	243
nair. (Lutra).....	454	Nectomys palmipes.....	243
nana. (Brachyphylla).....	535	Nectomys squamipes.....	244
nana. (Didelphys).....	4	neglecta. (Taxidea a.).....	430
Nandinia.....	401	neglecta. (Taxidea t.).....	430
Nandinia binotata.....	401	neglectus. (Cercopithecus).....	569
Nanelaphus.....	51	neglectus. (Macroxus).....	125
Nanger.....	76	neglectus. (Sciurus r.).....	125
Nannosciurine.....	107	neglectus. (Tamias q.).....	155
Nannosciurus.....	107	nelsoni. (Citellus).....	163
Nannosciurus whiteheadi.....	107	nelsoni. (Dicrostonyx).....	306
Nannugo.....	506	nelsoni. (Dicrostonyx h.).....	306, 307
Nanotragus hastatus.....	64	nelsoni. (Geomys).....	311
Nanotragus montanus.....	64	nelsoni. (Spermophilus).....	163
nanus. (Arvicola).....	290	Nemestrinus.....	566
nanus. (Lepus).....	383	nemestrinus. (Inuus).....	567
nanus. (Microtus).....	290	nemestrinus. (Macacus).....	567
Napæozapus.....	350, 352	nemestrinus. (Simia).....	567
narica. (Viverra).....	427	nemoralis. (Halmaturus).....	19
Nasalis.....	570	nemoralis. (Microtus).....	301
Nasalis larvatus.....	571	nemoralis. (Microtus p.).....	301
Nasalis recurvus.....	571	nemoralis. (Sciurus a.).....	128
nasica. (Nasua).....	427	nemoralis. (Sciurus p.).....	128
nasica. (Simia).....	571	nemoralis. (Sciurus w.).....	128
naso. (Gazella).....	77	Nemorhædus.....	90
Nasua.....	427	Nemorhædus bubalinus.....	90
		Nemorhædus cinereus.....	91

	PAGE.		PAGE.
Nemorhædus goral.....	91	Neotoma grandis.....	271
Nemorhædus griseus.....	91	Neotoma grangeri.....	280
Nemorhædus milne-edwardsi.....	91	Neotoma intermedia.....	273
Nemorhædus proclivus.....	90	Neotoma i. albigula.....	275
Nemorhædus thar.....	90	Neotoma i. gilva.....	274
Nemorhedus goral.....	91	Neotoma macrotis.....	264
Nemorhedus griseus.....	91	Neotoma m. simplex.....	265
nemorivagus. (Cervus).....	52	Neotoma mexicana.....	270
nemorivagus. (Hippocamelus)...	52	Neotoma m. madrensis.....	271
Neodon.....	286	Neotoma micropus.....	267
Neofiber.....	286, 303	Neotoma m. surberi.....	268
Neofiber alleni.....	303	Neotoma mohavensis.....	267
Neogala.....	446	Neotoma monochrourea.....	264
Neomys.....	478	Neotoma occidentalis.....	278
Neomys fodiens.....	478	Neotoma o. fusca.....	279
Neosciurus.....	114, 132	Neotoma orizabæ.....	276
Neosorex.....	473	Neotoma orolestes.....	280
Neosorex navigator.....	473	Neotoma pennsylvanica.....	270
Neosorex p. navigator.....	473	Neotoma rupicola.....	280
Neotoma.....	263	Neotoma splendens.....	264
Neotoma albigula.....	275	Neotoma venusta.....	274
Neotoma alleni.....	281	Neotominæ.....	263
Neotoma attwateri.....	269	Neotraginæ.....	63
Neotoma baileyi.....	269	Neotragus.....	65
Neotoma bella.....	276	Neotragus damarensis.....	66
Neotoma b. felipensis.....	276	Neotragus haggardi.....	64
Neotoma californica.....	273	Neotragus kirkii.....	66
Neotoma campestris.....	275	Neotragus saltiana.....	65
Neotoma c. baileyi.....	269	Neotragus saltianus.....	65
Neotoma cinerea.....	277	nesioticus. (Citellus).....	179
Neotoma c. columbiana.....	279	Nesomys.....	198
Neotoma c. drummondi.....	278	Nesomys betsileoensis.....	199
Neotoma c. fusca.....	279	Nesomys rufus.....	198
Neotoma c. occidentalis.....	278	Neurotrichus.....	479
Neotoma cinpamomea.....	281	Neurotrichus gibbsi.....	480
Neotoma cnemophila.....	267	Neurotrichus g. major.....	480
Neotoma desertorum.....	271	nexus. (Tamias).....	147
Neotoma d. grandis.....	271	Nicon.....	531
Neotoma d. sola.....	272	Nicon caudifer.....	532
Neotoma fallax.....	272	nicoyanæ. (Sciurus).....	131
Neotoma floridana.....	269	nictitans. (Cercopithecus).....	569
Neotoma f. attwateri.....	269	nictitans. (Grimmia).....	62
Neotoma fusca apicalis.....	280	nictitans. (Lasiopyga).....	569
Neotoma fuscipes.....	264	nictitans. (Simia).....	569
Neotoma f. affinis.....	266	niger. (Aigocerus).....	82
Neotoma f. annectens.....	266	niger. (Antilope).....	82
Neotoma f. cnemophila.....	267	niger. (Cervus).....	43
Neotoma f. dispar.....	266	niger. (Hippotragus).....	82
Neotoma f. macrotis.....	264, 265	niger. (Oryzoryctes).....	489
Neotoma f. mohavensis.....	267	niger. (Panthera n.).....	388
Neotoma f. streatori.....	265	niger. (Sciurus).....	125, 127, 133

	PAGE.		PAGE.
niger. (Troglodytes).....	579	norvegicus. (Mus).....	194
nigra. (Antilope).....	82	Notagogus.....	3
nigra. (Felis t.).....	386	notatus. (Sciurus).....	117
nigra. (Mustela).....	445	notius. (Putorius n.).....	450
nigra. (Ozanna).....	82	Notophorus.....	34
nigra. (Phyllophora).....	532	novæ-hollandiæ. (Mustela).....	10
nigra. (Viverra).....	399	novæ-hollandiæ. (Ursus).....	12
nigrescens. (Emballonura).....	519	noveboracensis. (Lemmus).....	287
nigrescens. (Microgale c.).....	488	noveboracensis. (Mus s.).....	202, 210
nigrescens. (Mosia).....	519	noveboracensis. (Peromyscus a.).....	210
nigrescens. (Putorius).....	446	noveboracensis. (Peromyscus l.).....	210
nigricans. (Cervus).....	43	noveboracensis. (Putorius).....	450
nigricans. (Ericulus).....	487	noveboracensis. (Vespertilio).....	512
nigricans. (Molossus).....	522	noveboracus. (Vespertilio).....	512
nigricans. (Myotis).....	501	novemcinctum. (Tatu).....	26, 27
nigricans. (Thomomys f.).....	318	novemcinctus. (Cabassous).....	27
nigricans. (Vespertilio).....	501, 503	novemcinctus. (Dasypus).....	26
nigricaudatus. (Ichneumia).....	403	nubiana. (Capra).....	92
nigricaudatus. (Lepus).....	379	nuchalis. (Halmaturus).....	18
nigriceps. (Hemicentetes).....	487	nudicaudata. (Didelphys).....	5
nigrifrons. (Lemur).....	544	nudipes. (Hesperomys).....	241
nigripes. (Putorius).....	448	nudipes. (Peromyscus).....	241
nigripes. (Sciuropterus).....	186	nuttalli. (Arvicola).....	238
nigripes. (Sciurus f.).....	135	nuttalli. (Lepus).....	374
nigripes. (Sciurus g.).....	135	nuttalli. (Peromyscus).....	238
nigripes. (Sus s.).....	31	Nyctereutes.....	405
nigrivittatus. (Cebus).....	561	Nyctereutes procyonides.....	406
nigrivittatus. (Sciurus).....	117	Nycteridæ.....	499
nimr. (Panthera).....	388	Nycterinæ.....	499
ningpoensis. (Sciurus c.).....	116	Nycteris.....	499
niphæcus. (Ovibos m.).....	99	Nycteris daubentonii.....	499
nitidula. (Mus).....	192	Nycteris hispida.....	499
nitela. (Myoxus).....	192	Nycterops pilosa.....	499
nitidula. (Glis).....	192	Nycterus.....	499
nitidus. (Vespertilio).....	502	Nycticea crepuscularis.....	514
nitratu. (Dipodomys m.).....	323	Nycticebinæ.....	549
nivarius. (Evotomys).....	285	Nycticebus.....	549
nivea. (Procyon).....	426	Nycticebus bengalensis.....	549, 550
niveiventris. (Hesperomys).....	206	Nycticebus cinereus.....	550
niveiventris. (Peromyscus).....	206	Nycticebus coucang.....	550
nobilis. (Leo).....	392	Nycticeius.....	514
nobilis. (Rhinolophus).....	498	Nycticeius humeralis.....	514, 515
Noctifelis.....	386	Nycticeius kuhli.....	515
Noctilionidæ.....	519	Nycticejus flaveolus.....	515
noctivaga. (Didelphys).....	4	Nycticejus humeralis.....	514
noctivagans. (Lasionycteris).....	505, 506	Nycticejus luteus.....	515
noctivagans. (Vespertilio).....	505	Nyctimene.....	494
Noctula.....	509	Nyctimene cephalotes.....	494
nocturna. (Pithecia).....	556	Nyctimene palliatus.....	494
nordhoffi. (Sciurus).....	108	Nyctinomops.....	523
norfolcensis. (Sciurus).....	14	Nyctinomops femorosaccus.....	523

	PAGE.
Nyctinomus.....	523
Nyctinomus ægyptiacus.....	523
Nyctinomus acetabulosus.....	524
Nyctinomus antillularum.....	524
Nyctinomus brasiliensis.....	523
Nyctinomus b. californicus.....	523
Nyctinomus femorosaccus.....	523
Nyctinomus jugularis.....	525
Nyctinomus mexicanus.....	523
Nyctinomus mohavensis.....	523
Nyctinomus natalensis.....	524
Nyctophilus.....	519
Nyctophilus geoffroyi.....	519
Nyctophilus timoriensis.....	519
Nystactes.....	500
obesus. (Odontobænus).....	459
obesus. (Psammomys).....	193
obesus. (Trichechus).....	459
obscurus. (Evotomys).....	285
obscurus. (Fiber).....	305
obscurus. (Molossus).....	521
obscurus. (Molossus r.).....	521, 522
obscurus. (Perognathus).....	339
obscurus. (Sorex).....	469
obscurus. (Tamias).....	146
obscurus. (Theropithecus).....	566
obscurus. (Vespertilio).....	502
occidentalis. (Arvicola).....	295
occidentalis. (Canis).....	411, 413
occidentalis. (Canis l.).....	411
occidentalis. (Cervus).....	44
occidentalis. (Cervus c.).....	44
occidentalis. (Mephitis).....	434
occidentalis. (Neotoma).....	278
occidentalis. (Neotoma c.).....	278
occidentalis. (Ovis m.).....	98
occidentalis. (Sciurus).....	124
occidentalis. (Teonoma c.).....	278
occipitalis. (Fiber).....	304
oceanica. (Phoca).....	463
Ochetodon humilis.....	256
Ochetomys.....	286
Ochotona.....	365
Ochotona minima.....	366
Ochotona minimus.....	366
Ochotona princeps.....	365
Ochotona saxatilis.....	366
Ochotona schisticeps.....	365, 366
Ochotonidæ.....	365
ochraceus. (Ailurus).....	423

	PAGE.
ochraceus. (Evotomys g.).....	284
ochrogaster. (Hypudæus).....	299
ochrogenys. (Eutamias t.).....	145
ochrogenys. (Tamias t.).....	145
ochromelas. (Herpestes).....	403
ochropus. (Canis).....	410
octo-cinctus. (Dasypus).....	26
Octodontidæ.....	354
Octodontinæ.....	354
ocularis. (Antilope).....	62
ocularis. (Sciurus).....	192
oculatus. (Sciurus).....	122
ocydromus. (Macropus).....	20
Odobenus.....	30, 458
Odocoileus.....	45
Odocoileus americanus.....	46
Odocoileus a. couesi.....	46
Odocoileus a. texensis.....	47
Odocoileus battyi.....	48
Odocoileus columbianus.....	48
Odocoileus c. sitkensis.....	49
Odocoileus hemionus.....	49
Odocoileus h. californicus.....	49
Odocoileus speleus.....	45
Odontobænidæ.....	458
Odontobænus.....	458
Odontobænus obesus.....	459
Odontobænus rosmarus.....	459
Odontocælus.....	45, 46
Odontocælus americanus.....	46
Odontocælus a. couesi.....	46
Odontocælus a. texensis.....	47
Odontocælus battyi.....	48
Odontocælus bezoarticus.....	50
Odontocælus columbianus.....	48
Odontocælus c. sitkensis.....	49
Odontocælus hemionus.....	49
Odontocælus h. californicus.....	49
Odontocælus rothschildi.....	48
Odontodorus.....	38
Ædipomidas.....	553
Ædipomidas illigeri.....	554
Ædipus.....	553
ædipus. (Simia).....	553
ærstedi. (Saimiri).....	559
ærstedii. (Chrysothrix).....	559
ogilbyii. (Cynictis).....	404
Ogotoma.....	365
oinops. (Macacus).....	567
oleotragus. (Antilope).....	70
olida. (Mephitis).....	433

	PAGE.		PAGE.
Olidosus.....	35	Oreas livingstonii.....	90
Oligoryzomys.....	249, 253	oregonensis. (Felis c.).....	392
olivaceo-fuscus. (Dysopes).....	522	oregonensis. (Felix).....	392
olivaceus. (Cebus).....	561	oregonensis. (Geomys).....	309
olivaceus. (Citellus t.).....	167	oregonensis. (Pteromys).....	185
olivaceus. (Perognathus).....	334	oregonensis. (Putorius x.).....	452
olivaceus. (Perognathus m.).....	334	oregonensis. (Sciuropterus a.).....	185
olivaceus. (Sciurus).....	110	oregonensis. (Sciuropterus v.).....	185
olivaceus. (Spermophilus t.).....	167	oregonensis. (Vespertilio).....	502
olympica. (Apodontia).....	189	oregoni. (Microtus).....	301, 302
olympica. (Haplodontia).....	189	oregonus. (Bassariscus a.).....	425
olympica. (Spilogale).....	441	oregonus. (Bassariscus f.).....	425
olympicus. (Phenacomys).....	282	oregonus. (Citellus).....	175
olympicus. (Sciuropterus a.).....	185	oregonus. (Spermophilus).....	175
olympicus. (Sciuropterus v.).....	185	oreolestes. (Neotoma).....	280
olympus. (Arctomys).....	184	oreophilus. (Phenacomys).....	282
olympus. (Felis h.).....	392	Oreotragus.....	63
olympus. (Marmota).....	184	Oreotragus megalotis.....	81
Ommatostergus.....	307	Oreotragus oreotragus.....	63
onca. (Felis).....	389	Oreotragus saltator.....	63
Onychogale.....	18, 402	oreotragus. (Antilope).....	63, 70
Onychogale frenata.....	18	oreotragus. (Cemas).....	63
Onychogalea.....	18	oreotragus. (Oreotragus).....	63
Onychogalea frænata.....	18	oresterus. (Peromyscus).....	208
Onychomys.....	200	orientalis. (Didelphis).....	11
Onychomys leucogaster.....	200	orientalis. (Hyæna).....	405
Onychomys l. brevicaudus.....	200	orientalis. (Phalanger).....	11
Onychomys l. pallescens.....	201	orientalis. (Pusa).....	455
Onychomys macrotis.....	202	origenes. (Mustela c.).....	444
Onychomys m. pallescens.....	201	orinomus. (Myotis).....	502
Onychomys pulcher.....	202	orinus. (Sorex).....	472
Onychomys ramona.....	201	Oritragus.....	63
Onychomys torridus.....	201	orizabæ. (Neotoma).....	276
Oncifelis.....	386	ornata. (Ovis).....	95
Ondatra.....	303	ornatus. (Herpestes).....	403
oneida. (Arvicola).....	287	ornatus. (Sciurus).....	110
Onotragus.....	67	ornatus. (Sorex).....	471
operarius. (Thomomys).....	314	ornatus. (Ursus).....	423
operculatus. (Catoblepas).....	60	Ornithorhynchidæ.....	1
opimus. (Ctenomys).....	354	Ornithorhynchus.....	1
opossum. (Didelphis).....	6	Ornithorhynchus anatinus.....	1
opossum. (Metachirus).....	6	Ornithorhynchus brevirostris.....	1
orarius. (Scapanus).....	482	Ornithorhynchus crispus.....	1
Oreamnos.....	94	Ornithorhynchus fuscus.....	1
Oreamnos m. columbianus.....	94	Ornithorhynchus hystrix.....	2
Oreamnus.....	94	Ornithorhynchus lævis.....	1
Oreamnus kennedyi.....	95	Ornithorhynchus paradoxus.....	1
Oreamnus montanus.....	94	Ornithorhynchus rufus.....	1
Oreamnus m. columbianus.....	94	orophilus. (Phenacomys).....	282
Oreas.....	89	orolestes. (Teonoma).....	280
Oreas c. livingstoni.....	90	Orthogeomys.....	312

	PAGE.		PAGE.
Orthogeomys cuniculus	312	Osphranter lanigerus...	19
Orthiomys.....	287	Osphranter rufus	19
Oryctogale.....	437	Otaria jubata.....	457
Oryctolagus	366, 378	Otaria stelleri.....	457
Oryctomys.....	313	Otariidæ.....	457
Oryctomys bottæ.....	314	Otelaphus.....	46
Oryx.....	83	Otisorex platyrhinus.....	467
Oryx algazel.....	83	Otocebus.....	560
Oryx beisa.....	83	Otocolobus.....	160
Oryx capensis.....	83	Otocyon.....	407
Oryx gazella.....	83	Otocyon caffer.....	407
Oryx leucoryx.....	83	Otocyon megalotis.....	407
Oryx oryx.....	83	Otoes.....	457
oryx. (Antilope)	83, 89	Otogale.....	549
oryx. (Oryx).....	83	Otognosis.....	331
oryzivora. (Arvicola).....	249	Otognosis longimembris.....	334
Oryzomys.....	249	Otolemur.....	549
Oryzomys albiventer.....	250	Otolicnus.....	549
Oryzomys aquaticus.....	250	Otopithecus	568, 569
Oryzomys breviceauda.....	255	Otopterus.....	527
Oryzomys chapmani	251	Otopterus bocourtianus.....	528
Oryzomys cherriei.....	254	Otopterus bulleri.....	528
Oryzomys chrysomelas.....	254	Otopterus mexicanus.....	528
Oryzomys costaricensis.....	253	Otopterus waterhousii.....	527
Oryzomys fulvescens.....	253	Otosciurus	114, 126
Oryzomys jalapæ.....	251	Otospermophilus	160, 175
Oryzomys j. apatelius.....	251	otus. (Vespertilio).....	517
Oryzomys longicaudatus.....	253	Ourebia.....	63
Oryzomys maculiventer.....	252	Ourebia haggardi	64
Oryzomys melanotis.....	252	Ourebia montana.....	63, 64
Oryzomys meridensis.....	252	ourebi. (Antilope).....	63
Oryzomys minutus.....	254	Ovibos.....	98
Oryzomys molestus.....	250	Ovibos moschatus.....	98
Oryzomys natator.....	249	Ovibos m. niphæcus.....	99
Oryzomys palustris.....	249	Ovibos pallantis.....	99
Oryzomys p. natator.....	249	Ovis.....	95
Oryzomys p. texensis.....	249	Ovis ammon.....	98
Oryzomys rostratus.....	252	Ovis argali.....	98
Oryzomys stolzmanni.....	253	Ovis aries	95
Oryzomys vegetus.....	254	Ovis burrhel	95
Oryzomys velutinus.....	252	Ovis canadensis.....	96
Oryzorictes.....	488	Ovis cervina.....	96
Oryzorictes hova	488, 489	Ovis c. cremnobates.....	96
Oryzorictes tetradactylus.....	489	Ovis cylindricornis.....	92
Oryzoryctes.....	488	Ovis dalli	97
Oryzoryctes hova.....	489	Ovis d. kenaiensis.....	98
Oryzoryctes niger.....	489	Ovis lervia.....	95
Oryzoryctes tetradactylus.....	489	Ovis montanus.....	94
Osmectetis.....	402	Ovis m. dalli.....	97
osoyoosensis. (Fiber).....	303	Ovis musimon.....	98
Osphranter.....	18	Ovis m. occidentalis.....	98

	PAGE.		PAGE.
Ovis nahoor.....	95	palliatu8. (Sciurus).....	110
Ovis nahura.....	95	pallida. (Viverra).....	398
Ovis nayaur.....	95	pallidu8. (Antrozou8).....	518
Ovis ornata.....	95	pallidu8. (Caluromy8 l.).....	5
Ovis stonei.....	96	pallidu8. (Canis).....	409
Ovis stonii.....	96	pallidu8. (Cebus).....	561
Ovis tragelaphu8.....	95	pallidu8. (Citellu8 t.).....	167
Oxymycteru8.....	263	pallidu8. (Fiber z.).....	304
Oxymycteru8 nasutu8.....	263	pallidu8. (Georychu8).....	348
Ozanna.....	82	pallidu8. (Herpestes).....	402
Ozanna equina.....	82	pallidu8. (Metachiru8 f.).....	6
Ozanna nigra.....	82	pallidu8. (Myotis c.).....	503
Ozolic8is.....	437	pallidu8. (Perognathu8 f.).....	341
		pallidu8. (Philander l.).....	5
Paca.....	364	pallidu8. (Reithrodontomy8).....	258
paca. (Agouti).....	364	pallidu8. (Reithrodontomy8 l.) ..	258
paca. (Mus).....	364	pallidu8. (Rhithrodontomy8 l.) ..	258
Pachy8oma brevicaudatu8.....	494	pallidu8. (Spermophilu8 t.).....	167
Pachy8oma diardii.....	494	pallidu8. (Tamia8 a.).....	156
Pachy8oma duvace8lui.....	494	pallidu8. (Tamia8 q.).....	143
Pachy8oma jagorii.....	495	pallidu8. (Vespertilio).....	518
Pachy8oma luzoniense.....	494	palmariu8. (Peromyscu8 g.)	216
Pachyura.....	478, 479	palmaru8. (Artibeu8).....	536
pacifica. (Ap8odontia).....	188	palmaru8. (Funambulu8).....	112
pacifica. (Haplodontia).....	188	palmaru8. (Sciuru8)	110, 112
pacifica. (Lutra c.).....	454	Palmatu8.....	44
pacifica. (Lutra h.).....	454	palmatu8. (Alce8).....	42
pacifica. (Mustela c.).....	445	palmeri. (Atophyrax b.).....	473
pacifica. (Mustela p.).....	445	palmeri. (Sorex b.).....	473
pacificu8. (Antrozou8 p.).....	518	palmpipe8. (Nectomy8).....	243
pacificu8. (Castor c.).....	190	Palmi8ta	111, 112
pacificu8. (Sorex).....	471	palpebro8u8. (Inu8).....	567
paco8. (Camelu8).....	37	Paludicola.....	286
paco8. (Lama).....	37	paludicola. (Lepu8).....	367
Pagomy8.....	461	paludicola. (Lepu8 p.).....	367
Pagophilu8	461, 463	palu8tri8. (Arvicola).....	287
palaventi8. (8u8).....	32	palu8tri8. (Hesperomy8).....	249
pallanti8. (Ovibo8).....	99	palu8tri8. (Lepu8).....	367
pallasi. (Ægocero8).....	92	palu8tri8. (Mu8).....	249
pallasi. (Bo8).....	99	palu8tri8. (Oryzomy8).....	249
pallasi. (Harpyia).....	495	palu8tri8. (Sorex).....	473
pallasi. (Paradoxuru8).....	400	pambasi8eu8. (Canis).....	413
pal888888. (Peromyscu8 m.).....	240	Pan.....	577
pal888888. (Onychomy8 l.).....	201	pan. (Atele8).....	559
pal888888. (Onychomy8 m.).....	201	panamenti8. (Dasyp8teru8 e.).....	514
palliatu8. (Alouatta).....	555	panamintinu8. (Perodipu8).....	329
palliatu8. (Funisciuru8).....	110	panamintinu8. (Perognathu8).....	333
palliatu8. (Helio8ciuru8).....	110	panamintinu8. (Perognathu8 l.) ..	333
palliatu8. (Mycete8).....	555	panamintinu8. (Tamia8).....	151
palliatu8. (Nyctimene).....	494	Pangolin.....	27
palliatu8. (P8teropu8).....	494	Paniscu8.....	559

	PAGE.
paniscus. (Simia).....	559
Panthera antiquorum.....	388
Panthera angulifera.....	390
Panthera chinensis.....	391
Panthera javanensis.....	390
Panthera leopardus.....	388
Panthera nimr.....	388
Panthera n. niger.....	388
Panthera smithi.....	390
Panthera sumatrana.....	390
Panthera undata.....	390
Panthera variegata.....	388
panthera. (Felis).....	387
Pantholops.....	73
Pantholops hodgsoni.....	73
Papio.....	562
Papio doguera.....	566
Papio hamadryas.....	565
Papio leucophæus.....	564
Papio maimon.....	563
Papio mormon.....	563
Papio porcarius.....	566
Papio rubescens.....	562
Papio sphinx.....	562
papio. (Cynocephalus).....	562
Pappogeomys.....	311
Pappogeomys bulleri.....	311
papuensis. (Porcula).....	31
papuensis. (Sus).....	31
Paradoxurus.....	399
Paradoxurus albifrons.....	400
Paradoxurus crossii.....	400
Paradoxurus derbyanus.....	400
Paradoxurus hamiltoni.....	401
Paradoxurus hermaphroditus.....	399, 400
Paradoxurus leucotis.....	401
Paradoxurus musanga.....	400
Paradoxurus pallasii.....	400
Paradoxurus prehensilis.....	399, 401
Paradoxurus trivirgatus.....	401
Paradoxurus typus.....	399
Paradoxurus zebra.....	400
paradoxus. (Ornithorhynchus) ..	1
paradoxus. (Perognathus).....	337
paradoxus. (Perognathus h.) ..	337
paradoxus. (Solenodon).....	486
Paragalía.....	10
Paralces.....	41
paralius. (Heteromys).....	345
Parascalops.....	485
Parascalops breweri.....	485

	PAGE.
Parasciurus.....	114, 124
parasiticus. (Peromyscus).....	229
Pardalis.....	386
pardalis. (Felis).....	389
pardus. (Felis).....	387
pardus. (Leopardus).....	388
parryi. (Citellus).....	171
parryii. (Arctomys).....	171
parva. (Blarina).....	476, 477
parvidens. (Citellus m.).....	165
parvidens. (Spermophilus m.) ..	165
parvulus. (Herpestes).....	403
parvus. (Citellus t.).....	167
parvus. (Cricetodipus).....	334
parvus. (Dipodomys).....	324
parvus. (Dipodomys m.).....	324
parvus. (Scalops).....	484
parvus. (Scalops a.).....	484
parvus. (Sorex).....	476
parvus. (Spermophilus t.).....	167
pasan. (Antilope).....	83
Passalites.....	50
patagonica. (Mirounga).....	460
patagonicus. (Dasyus).....	25
pavidus. (Peromyscus).....	241
pealei. (Phoca).....	461
pearsoni. (Rhinolophus).....	496
pearsonii. (Rhinolophus).....	496
peba. (Dasypus).....	27
pecari. (Tagassu).....	35
pecari. (Tayassu).....	35
Pecora.....	38
Pectinator.....	354
Pectinator spekei.....	354
Pectinator spekii.....	354
Pedetes.....	353
Pedetes cafer.....	353
Pedetes typicus.....	354
Pedetidae.....	353
Pedomys.....	286, 299
pelii. (Anomalurus).....	107
pelzelni. (Gacella).....	77
pelzelni. (Gazella).....	77
penicillatus. (Arctictis).....	400
penicillatus. (Cynictis).....	404
penicillatus. (Herpestes).....	404
penicillatus. (Jacchus).....	553
penicillatus. (Perognathus).....	338
penicillatus. (Sciurus).....	112
peninsulæ. (Citellus l.).....	162
peninsulæ. (Putorius).....	451

	PAGE.		PAGE.
peninsulæ. (Rhithrodontomys)	260	peruanum. (Lagidium)	361, 362
peninsulæ. (Tamias l.)	162	Perognathus	331
peninsulæ. (Vespertilio f.)	511	Perognathus apache	332
peninsularis. (Lepus)	378	Perognathus arenarius	340
pennanti. (Mustela)	445	Perognathus b. rhydinorhis	336
pennantii. (Talpa)	483	Perognathus bimaculatus	332
pennsylvanica. (Felis)	393	Perognathus californicus	243
pennsylvanica. (Mus)	287	Perognathus c. dispar	343
pennsylvanica. (Neotoma)	270	Perognathus cneus	336
pennsylvanica. (Scalops)	483	Perognathus conditi	337
pennsylvanica. (Vulpes)	413	Perognathus elibatus	333
pennsylvanicus. (Microtus)	287	Perognathus fallax	340
pennsylvanicus. (Sciurus)	133	Perognathus f. pallidus	341
penricei. (Cobus)	69	Perognathus fasciatus	331, 336
penricii. (Cobus)	69	Perognathus femoralis	342
pentadactyla. (Manis)	27	Perognathus f. mesopolius	342
Perameles harveyi	17	Perognathus flavus	332
Perameles lagotis	10	Perognathus f. bimaculatus	332
Perameles tuckeri	16	Perognathus formosus	335
Peramelidæ	10	Perognathus helleri	340
peregrinator. (Sciurus p.)	129	Perognathus hispidus	336
peregrinus. (Thomomys)	320	Perognathus h. maximus	337
perforatus. (Taphozous)	521	Perognathus h. paradoxus	337
pergracilis. (Blarina)	477	Perognathus inornatus	334
pericalles. (Perognathus)	332	Perognathus latirostris	337
perimecurus. (Peromyscus)	226	Perognathus longimembris	334
Perissodactyla	101	Perognathus l. bangsi	333
perniger. (Leopardus)	387	Perognathus l. panamintinus	333
perniger. (Rhinolophus)	497	Perognathus lordi	335
Perodipus	327	Perognathus mearnsi	331
Perodipus agilis	327	Perognathus merriami	331
Perodipus chapmani	330	Perognathus mesembrinus	335
Perodipus longipes	330	Perognathus monticola olivaceus	334
Perodipus panamintinus	329	Perognathus obscurus	339
Perodipus richardsoni	330	Perognathus olivaceus	334
Perodipus streator	329	Perognathus o. amænus	334
Peroechinus	466	Perognathus panamintinus	333
peronii. (Cephalotes)	494	Perognathus p. bangsi	333
peronii. (Hypsiprymnus)	16	Perognathus p. brevinasus	334
peronii. (Petaurus)	13	Perognathus paradoxus	337
perotensis. (Cratogeomys)	310	Perognathus p. spilotus	337
perpallidus. (Thomomys)	321	Perognathus penicillatus	338
perpallidus. (Thomomys t.)	321	Perognathus p. angustirostris	338
perpes. (Thomomys a.)	321	Perognathus p. arenarius	340
perplicatus. (Lepus l.)	373	Perognathus p. pricii	339
persicus. (Felis)	392	Perognathus pericalles	332
personata. (Chilonycteris)	525	Perognathus pricei	339
personatum. (Phyllostoma)	537	Perognathus spinatus	343
personatus. (Callithrix)	556	Perognathus stephensi	340
personatus. (Sorex)	466	Peromyscus	202, 206
persultator. (Lepus f.)	371	Peromyscus affinis	240

	PAGE.		PAGE.
<i>Peromyscus akeleyi</i>	223	<i>Peromyscus michiganensis</i>	239
<i>Peromyscus americanus</i>	208	<i>Peromyscus m. pallascens</i>	240
<i>Peromyscus a. arizonæ</i>	212	<i>Peromyscus montipinoris</i>	235
<i>Peromyscus a. deserticolus</i>	210	<i>Peromyscus musculus brunneus</i> ...	203
<i>Peromyscus a. noveboracensis</i>	210	<i>Peromyscus niveiventris</i>	206
<i>Peromyscus a. sonoriensis</i>	213	<i>Peromyscus n. phasma</i>	207
<i>Peromyscus anastasæ</i>	217	<i>Peromyscus nudipes</i>	241
<i>Peromyscus anastasiæ</i>	217	<i>Peromyscus nuttalli</i>	238
<i>Peromyscus anthonyi</i>	205	<i>Peromyscus o. rubidus</i>	229
<i>Peromyscus arboreus</i>	202	<i>Peromyscus oresterus</i>	208
<i>Peromyscus attwateri</i>	231	<i>Peromyscus parasiticus</i>	229
<i>Peromyscus auripectus</i>	229	<i>Peromyscus pavidus</i>	241
<i>Peromyscus austerus</i>	225	<i>Peromyscus perimecurus</i>	226
<i>Peromyscus aztecus</i>	241	<i>Peromyscus petræus</i>	230
<i>Peromyscus boylii</i>	227	<i>Peromyscus phasma</i>	207
<i>Peromyscus californicus</i>	205	<i>Peromyscus rowleyi</i>	228
<i>Peromyscus canadensis</i>	217	<i>Peromyscus r. pinalis</i>	228
<i>Peromyscus canus</i>	226	<i>Peromyscus rufinus</i>	215
<i>Peromyscus catalinæ</i>	225	<i>Peromyscus sagax</i>	236
<i>Peromyscus difficilis</i>	236	<i>Peromyscus sonoriensis</i>	213
<i>Peromyscus dyselii</i>	234	<i>Peromyscus s. fulvus</i>	214
<i>Peromyscus eremicus</i>	203	<i>Peromyscus spicilegus</i>	235
<i>Peromyscus floridanus</i>	234	<i>Peromyscus stephensi</i>	230
<i>Peromyscus fraterculus</i>	231	<i>Peromyscus subgriseus</i>	207
<i>Peromyscus furvus</i>	242	<i>Peromyscus taylori</i>	203
<i>Peromyscus gaurus</i>	224	<i>Peromyscus texanus medius</i>	221
<i>Peromyscus gossypinus</i>	216	<i>Peromyscus t. subarcticus</i>	220
<i>Peromyscus g. palmarius</i>	216	<i>Peromyscus texensis</i>	218
<i>Peromyscus gossypinus</i>	216	<i>Peromyscus t. arcticus</i>	220
<i>Peromyscus g. palmarius</i>	216	<i>Peromyscus t. arizonæ</i>	212
<i>Peromyscus hemionotis</i>	207	<i>Peromyscus t. deserticola</i>	210
<i>Peromyscus herroni</i>	233	<i>Peromyscus t. gambeli</i>	218
<i>Peromyscus homochroia</i>	224	<i>Peromyscus t. medius</i>	222
<i>Peromyscus insignis</i>	233	<i>Peromyscus t. nebrascensis</i>	220
<i>Peromyscus labecula</i>	214	<i>Peromyscus t. subarcticus</i>	220
<i>Peromyscus lasius</i>	235	<i>Peromyscus t. thurberi</i>	221, 222
<i>Peromyscus leucopus</i>	208	<i>Peromyscus thomasi</i>	243
<i>Peromyscus l. arizonæ</i>	212	<i>Peromyscus thurberi</i>	222
<i>Peromyscus l. deserticola</i>	210	<i>Peromyscus truii</i>	237
<i>Peromyscus l. fulvus</i>	214	<i>Peromyscus t. nasutus</i>	237
<i>Peromyscus l. minnesotæ</i>	213	<i>Petaurista</i>	13
<i>Peromyscus l. myodes</i>	210	<i>Petaurista pygmæa</i>	15
<i>Peromyscus l. noveboracensis</i>	210	<i>Petaurista sciurea</i>	14
<i>Peromyscus l. sonoriensis</i>	213	<i>Petaurista. (Phalangista)</i>	13
<i>Peromyscus levipes</i>	241	<i>Petauroides</i>	13
<i>Peromyscus major</i>	232, 233	<i>Petauroides volans</i>	13
<i>Peromyscus martirensis</i>	237	<i>Petaurus</i>	14
<i>Peromyscus mearnsi</i>	226	<i>Petaurus australis</i>	14
<i>Peromyscus melanotis</i>	240	<i>Petaurus breviceps</i>	14
<i>Peromyscus metallicola</i>	206	<i>Petaurus didelphoides</i>	13
<i>Peromyscus mexicanus</i>	242	<i>Petaurus leucogaster</i>	13

	PAGE.		PAGE.
<i>Petaurus macrurus</i>	13	<i>Phascolagus</i>	18
<i>Petaurus peronii</i>	13	<i>Phascolchaeres</i>	32
<i>Petaurus pygmaeus</i>	15	<i>Phascolarctine</i>	15
<i>Petaurus sciureus</i>	14	<i>Phascolarctus</i>	15
<i>Petaurus taguanoides</i>	13	<i>Phascolarctus cinereus</i>	15
<i>Petaurus volans</i>	13	<i>Phascolarctus flindersi</i>	15
<i>petersi</i> . (<i>Æpyceras</i>).....	72	<i>Phascolarctus fuscus</i>	15
<i>petersi</i> . (<i>Æpyceros</i>).....	72	<i>Phascolarctus koala</i>	15
<i>petersi</i> . (<i>Rhynchocyon</i>).....	465	<i>Phascolomis</i>	10
<i>petræus</i> . (<i>Peromyscus</i>).....	230	<i>Phascolomyidæ</i>	10
<i>petulans</i> . (<i>Sciurus h.</i>).....	139	<i>Phascolomys</i>	10
<i>Phacellochoerus</i>	32	<i>Phascolomys bassii</i>	11
<i>Phacochære</i>	32	<i>Phascolomys fusca</i>	11
<i>Phaco-chœrus</i>	32	<i>Phascolomys ursinus</i>	10, 11
<i>Phacochœrus æliani</i>	33	<i>Phascolomys vomatus</i>	11
<i>Phacochœrus africanus</i>	33	<i>phasma</i> . (<i>Peromyscus</i>).....	207
<i>phæa</i> . (<i>Aplodontia</i>).....	189	<i>phasma</i> . (<i>Peromyscus n.</i>).....	207
<i>phæa</i> . (<i>Haplodontia</i>).....	189	<i>Phatages</i>	27
<i>phæonotus</i> . (<i>Lepus a.</i>).....	384	<i>Phatagin</i>	27
<i>phæus</i> . (<i>Arvicola</i>).....	299	<i>Phataginus</i>	27
<i>phæus</i> . (<i>Microtus m.</i>).....	299	<i>Phenacomys</i>	282
<i>phaiops</i> . (<i>Pteropus</i>).....	490, 492	<i>Phenacomys intermedius</i>	282
<i>phaiops</i> . (<i>Vespertilio</i>).....	509	<i>Phenacomys olympicus</i>	282
<i>Phalanger</i>	11	<i>Phenacomys oreophilus</i>	282
<i>Phalanger orientalis</i>	11	<i>Phenacomys orophilus</i>	282
<i>Phalangeridæ</i>	11	<i>phenax</i> . (<i>Spilogale</i>).....	440
<i>Phalangerinæ</i>	11	<i>Philander</i>	6
<i>Phalangista</i>	11, 14	<i>Philander l. pallidus</i>	5
<i>Phalangista alba</i>	11	<i>philander</i> . (<i>Didelphis</i>).....	5
<i>Phalangista angustivittis</i>	14	<i>philippinensis</i> . (<i>Cynocephalus</i>)... 464	
<i>Phalangista bougainvillei</i>	12	<i>philippinensis</i> . (<i>Eleutherura</i>).... 493	
<i>Phalangista canina</i>	13	<i>philippinensis</i> . (<i>Galeopithecus</i>).. 464	
<i>Phalangista cavifrons</i>	12	<i>philippinensis</i> . (<i>Macacus</i>)..... 567	
<i>Phalangista cooki</i>	12	<i>philippinensis</i> . (<i>Sus</i>)..... 32	
<i>Phalangista cuvieri</i>	12	<i>philippinus</i> . (<i>Cervus</i>)..... 43	
<i>Phalangista felina</i>	13	<i>philippi</i> . (<i>Heterocephalus</i>)..... 349	
<i>Phalangista fuliginosa</i>	13	<i>phillipsi</i> . (<i>Dipodomys</i>)..... 322	
<i>Phalangista fusca</i>	11	<i>phillipsi</i> . (<i>Madoqua</i>)..... 65	
<i>Phalangista gymnotis</i>	12	<i>Phoca</i>	460
<i>Phalangista hypoleucus</i>	12	<i>Phoca albicauda</i>	463
<i>Phalangista lemurina</i>	12	<i>Phoca albi</i>	463
<i>Phalangista melanura</i>	12	<i>Phoca annellata</i>	462, 463
<i>Phalangista minor</i>	11	<i>Phoca ansonii</i>	460
<i>Phalangista petaurista</i>	13	<i>Phoca coxii</i>	460
<i>Phalangista pygmæa</i>	15	<i>Phoca desmaresti</i>	463
<i>Phalangista rufa</i>	11	<i>Phoca dorsata</i>	463
<i>Phalangista sciurea</i>	14	<i>Phoca dubia</i>	460
<i>Phalangista trivirgata</i>	14	<i>Phoca elephantina</i>	460
<i>Phalangista vulpina</i>	12	<i>Phoca foetida</i>	461, 462
<i>Phalangista xanthopus</i>	12	<i>Phoca frederici</i>	462
<i>Phaner</i>	548	<i>Phoca groenlandica</i>	463

	PAGE.		PAGE.
Phoca hispida.....	462	picticaudata. (Gacella).....	76
Phoca jubata.....	457	picticaudata. (Gazella).....	76
Phoca lagura.....	463	picticaudata. (Procapra).....	76
Phoca largha.....	462	pictus. (Ægoceros).....	92
Phoca leonina.....	457, 459, 460	pictus. (Canis).....	406
Phoca littorea.....	461	pictus. (Lycan).....	406
Phoca mulleri.....	463	pictus. (Macropus).....	19
Phoca oceanica.....	463	pictus. (Tamias m.).....	157
Phoca pealei.....	461	pigra. (Didelphys v.).....	8
Phoca pilayi.....	463	pilayi. (Phoca).....	463
Phoca proboscidea.....	459, 460	Piliocolobus.....	573
Phoca resima.....	460	pilorides. (Capromys).....	357
Phoca richardi.....	461	pilorides. (Isodon).....	356, 357
Phoca richardii.....	462	pilosa. (Nycterops).....	499
Phoca rosmarus.....	458, 459	pilosus. (Hystrix).....	359
Phoca schreberi.....	462	pinalis. (Peromyscus r.).....	228
Phoca scopulicola.....	461	pinalis. (Sitomys r.).....	228
Phoca semilunaris.....	463	Pinemys.....	286
Phoca ursina.....	457	pinetis. (Geomys).....	308
Phoca variegata.....	461	pinetis. (Lepus a.).....	375
Phoca vitulina.....	461	pinetis. (Lepus g.).....	375
Phocidæ.....	459	pinetis. (Lepus s.).....	375
Phœochœrus.....	32	pinetorum. (Microtus).....	300
phœognatha. (Arctomys p.).....	171	pinetorum. (Psammomys).....	300
Pholidotus.....	27	Pinnipedia.....	457
Phyllodia.....	525	Pipistrellus.....	506
Phyllonycteris.....	534	Pipistrellus hesperus.....	506
Phyllonycteris planifrons.....	534	Pipistrellus h. apus.....	508
Phyllonycteris poeyi.....	534	Pipistrellus subflavus.....	508
Phyllonycteris sancta-cristobalensis.....	534	pipistrellus. (Vespertilio).....	506
Phyllophora.....	531	piscator. (Viverra).....	445
Phyllophora megalotis.....	529	Pithecia.....	556
Phyllophora nigra.....	532	Pithecia capillamentosa.....	556
Phyllorhina antricola.....	498	Pithecia leucocephala.....	556
Phyllorhina cyclops.....	498	Pithecia nocturna.....	556
Phyllostoma.....	530	Pithecia pithecia.....	556
Phyllostoma brevicaudum.....	531	pithecia. (Pithecia).....	556
Phyllostoma elongata.....	529	pithecia. (Simia).....	556
Phyllostoma hastatum.....	530	Pitheciinæ.....	556
Phyllostoma lineatum.....	539	Pithecus.....	577
Phyllostoma personatum.....	537	Pithecus syndactylus.....	576
Phyllostoma rotundum.....	540	Pithelemur.....	541
Phyllostoma scrobiculatum.....	529	Pithesciurus.....	558
Phyllostoma verrucosum.....	530	Pitymys.....	286, 300
Phyllostomatidæ.....	525	planifrons. (Phyllonycteris).....	534
Phyllostomatinae.....	527	platous. (Antilope).....	62
Phyllostomus.....	530	Platyceros.....	44
Phyllostomus maximus.....	530	platyceros. (Cervus).....	45
picta. (Antilope).....	84	Platypus.....	1
picta. (Hyæna).....	406	Platypus anatinus.....	1
picticaudata. (Antilope).....	76	platyotis. (Cephalophus).....	62

	PAGE.		PAGE.
platyrhina. (Chincha).....	435	potoru. (Didelphis).....	16
platyrhina. (Mephitis).....	435	potoru. (Hypsiprymnus).....	16
platyrhinus. (Otisorex).....	467	potoru. (Yerboa).....	16
platyrhinus. (Sorex).....	467	Potos.....	429
platyrhynchus. (Sorex).....	467	Potos flavus.....	429
Platystomus.....	30	Potos f. chiriquensis.....	429
Plecotinæ.....	517	Potos f. megalotus.....	430
Plecotus.....	517	prasinata. (Condylura).....	481
Plecotus auritus.....	517	pratensis. (Mynomes).....	287
Plecotus christii.....	517	Praticola.....	286
Plecotus macrotis.....	517	prehensilis. (Capromys).....	357
Plecotus townsendii.....	517	prehensilis. (Hystrix).....	359, 360
plicata. (Balantiopteryx).....	520	prehensilis. (Paradoxurus).....	399, 401
pluto. (Macroxus).....	119	prehensilis. (Viverra).....	399
pluto. (Sciurus r.).....	119	Presbypithecus.....	571, 573
pluton. (Pteropus).....	490	Presbytinæ.....	570
poecilura. (Felis).....	387	Presbytis.....	571
poensis. (Funambulus).....	110	Presbytis cephalopterus.....	573
poensis. (Funisciurus).....	110	Presbytis cristatus.....	572
poensis. (Heliosciurus).....	110	Presbytis entellus.....	573
poensis. (Macroxus).....	110	Presbytis femoralis.....	572
poensis. (Sciurus).....	110	Presbytis f. cruciger.....	572
poeyi. (Phyllonycteris).....	534	Presbytis fusco-murina.....	573
Pogonocebus.....	568	Presbytis hosii.....	572
Pogonomys.....	197	Presbytis johni.....	573
Pogonomys lamia.....	198	Presbytis mitrata.....	571
poliocephala. (Viverra).....	443	Presbytis subanus.....	572
poliocephalus. (Pteropus).....	491	pretiosus. (Molossus).....	522
polycomos. (Simia).....	573	prevosti. (Sciurus).....	119
polyodon. (Asinus).....	104	prevostii. (Sciurus).....	119
Pongo.....	577, 479	pricei. (Perognathus).....	339
Pongo borneo.....	577	pricei. (Tamias).....	145
Pongo p. pygmæus.....	577	pricei. (Tamias t.).....	145
popofensis. (Microtus u.).....	295	pricii. (Perognathus p.).....	339
porcaria. (Simia).....	566	pricii. (Tamias t.).....	145
porcarius. (Cynocephalus).....	566	Primates.....	541
porcarius. (Papio).....	566	princeps. (Lepus).....	365
porcellus. (Cavia).....	364	princeps. (Ogotoma).....	365
porcellus. (Mus).....	364	princeps. (Zapus).....	351
Porcula papuensis.....	31	principalis. (Microtus).....	302
Portax.....	84	Priodonte.....	399
Portax tragelaphus.....	84	Priodontes.....	399
Potamochoerus.....	32	Prionodon.....	399
Potamochoerus africanus.....	33	Prionodon linsang.....	399
Potamochoerus edwardsi.....	34	Proboscidea.....	106
Potamochoerus larvatus.....	34	proboscidea. (Cystophora).....	460
Potamotragus.....	60	proboscidea. (Mirounga).....	460
Potoroinæ.....	16	proboscidea. (Morunga).....	460
Potorous.....	16	proboscidea. (Phoca).....	459, 460
Potorous rufus.....	16	proboscideus. (Macrosclides).....	465
Potorous tridactylus.....	16	proboscideus. (Sorex).....	465

	PAGE.		PAGE.
Probubalus mindorensis	99	Protelinæ	404
Procupra	75	Prototheria	I
Procupra picticaudata	76	Protoxerus	108
Procupromys	357	Protoxerus stangeri	108
Procavia	105	Prox	38
Procavia b. somalica	106	pruinus. (Semnopithecus)	572
Procavia capensis	106	pruinus. (Vespertilio)	513
Prociavidae	105	pryeri. (Sciurus)	117
proclivus. (Nemorhædus)	90	Psammomys	193, 286
Procyon	425	Psammomys obesus	193
Procyon hernandezii	425	Psammomys pinetorum	300
Procyon lotor	425	Pseudanthropus	578
Procyon l. hernandezii	426	Pseudaxis	42, 43
Procyon nivea	426	pseudaxis. (Cervus)	43
Procyon psora	426	Pseudocebus	560
Procyonidae	423	Pseudois burrhel	95
Procyoninae	424	Pseudois nahoor	95
procyonoides. (Canis)	405, 406	Pseudostoma	308
procyonoides. (Nyctereutes)	406	Pseudostoma castanops	311
Proechimys	355	Pseudostoma floridana	308
Proechimys canicollis	356	Psilogrammurus	12
Proechimys centralis chiriquinus	356	psora. (Procyon)	426
Proechimys mincæ	355	Ptenochirus	495
Proechimys trinitatis	355	Ptenochirus lucasii	495
Proechinomys	355	Pteroderma	535
Proechinomys canicollis	355	Pteromyinæ	184
Proechinomys centralis chiriquinus	356	Pteromys alpinus	184
Proechinomys mincæ	355	Pteromys oregonensis	185
Proechinomys trinitatis	355	Pteromys s. alpinus	184
Prolemur	547	Pteronotus	526
propinquus. (Vespertilio f.)	511	Pteronotus davyi	526
propinquus. (Vesperus)	511	Pteronotus d. fulvus	526
Propithecus	541	Pteropodidae	490
Propithecus candidus	542	Pteropodinae	490
Propithecus damanus	542	Pteropus	490
Propithecus damonis	542	Pteropus alboscapulatus	496
Propithecus deckeni	542	Pteropus amplexicaudatus	493
Propithecus diadema	541	Pteropus aurinuchalis	492
Propithecus d. holomelas	542	Pteropus auri-nuchalis	492
Propithecus holomelas	542	Pteropus capistratus	491
Propithecus verreauxi	542	Pteropus celaeno	490
Propithecus v. coquereli	542	Pteropus collaris	493
Propithecus v. coronatus	542	Pteropus edulis	490
Propithecus v. deckeni	542	Pteropus edwardsi	490
Prosimia albifrons	544	Pteropus edwardsii	490
Prosimia melanocephala	544	Pteropus epomophorus	490
Prosimia rufifrons	544	Pteropus funereus	490
Prosimia rufipes	544	Pteropus gambianus	490
Proteles	404	Pteropus hypomelanus	491
Proteles cristatus	404	Pteropus javanicus	490
Proteles lalandii	404	Pteropus jubatus	492

	PAGE.		PAGE.
<i>Pteropus leschenaultii</i>	493	<i>Putorius macrophonius</i>	453
<i>Pteropus lucifer</i>	492	<i>Putorius melampeplus</i>	447
<i>Pteropus macrocephalus</i>	490	<i>Putorius nigrescens</i>	446
<i>Pteropus marginatus</i>	493	<i>Putorius nigripes</i>	448
<i>Pteropus melanopogon</i>	492	<i>Putorius noveboracensis</i>	450
<i>Pteropus palliatus</i>	494	<i>Putorius n. notius</i>	450
<i>Pteropus phaiops</i>	490, 492	<i>Putorius peninsulæ</i>	451
<i>Pteropus pluton</i>	490	<i>Putorius rixosus</i>	449
<i>Pteropus poliocephalus</i>	491	<i>Putorius spadix</i>	451
<i>Pteropus pteropus</i>	490	<i>Putorius streator</i>	449
<i>Pteropus pyrivorus</i>	493, 494	<i>Putorius s. leptus</i>	449
<i>Pteropus pyrrocephalus</i>	492	<i>Putorius vison</i>	446
<i>Pteropus rubricollis</i>	491	<i>Putorius v. energumenos</i>	447
<i>Pteropus seminudus</i>	493	<i>Putorius v. energumenus</i>	447
<i>Pteropus spectrum</i>	491	<i>Putorius v. lutrecephalus</i>	446
<i>Pteropus tittheæcheilus</i>	494	<i>Putorius v. melampeplus</i>	447
<i>Pteropus tricolor</i>	491	<i>Putorius washingtoni</i>	451
<i>Pteropus ualanus</i>	492	<i>Putorius xanthogenys</i>	452
<i>Pteropus woodfordi</i>	491	<i>Putorius x. mundus</i>	452
<i>Pteropus</i> . (<i>Pteropus</i>)	490	<i>Putorius x. oregonensis</i>	452
<i>Pterocolobus</i>	574	<i>putorius</i> . (<i>Mustela</i>)	446
<i>Pterygocolobus</i>	574	<i>pygarga</i> . (<i>Gazella</i>)	58
<i>Ptilopus dupreanus</i>	493	<i>pygargus</i> . (<i>Antilope</i>)	56, 58
<i>Ptilotus</i>	14	<i>pygargus</i> . (<i>Capra</i>)	75
<i>ptoox</i> . (<i>Antilope</i>)	62	<i>pygargus</i> . (<i>Capreolus</i>)	45
<i>pulcher</i> . (<i>Onychomys</i>)	202	<i>pygargus</i> . (<i>Cemas</i>)	58
<i>pulverulentus</i> . (<i>Vespertilio</i>)	506	<i>pygargus</i> . (<i>Cervus</i>)	45
<i>Puma</i>	386	<i>pygargus</i> . (<i>Damaliscus</i>)	58
<i>pumilus</i> . (<i>Microtus</i>)	282	<i>pygmæa</i> . (<i>Didelphis</i>)	15
<i>punctata</i> . (<i>Dasyprocta</i>)	363	<i>pygmæa</i> . (<i>Petaurista</i>)	15
<i>punctatissimus</i> . (<i>Macroxus</i>)	116	<i>pygmæa</i> . (<i>Phalangista</i>)	15
<i>punctatissimus</i> . (<i>Sciurus e.</i>)	116	<i>pygmæa</i> . (<i>Sylvicapra</i>)	61
<i>punctatus</i> . (<i>Sciurus</i>)	115	<i>pygmæa</i> . (<i>Volucella</i>)	15
<i>punctulatus</i> . (<i>Herpestes</i>)	403	<i>pygmæus</i> . (<i>Acrobates</i>)	15
<i>purpureus</i> . (<i>Sciurus</i>)	112	<i>pygmæus</i> . (<i>Petaurus</i>)	15
<i>Pusa</i>	455, 461, 462	<i>pygmæus</i> . (<i>Pongo p.</i>)	577
<i>Pusa orientalis</i>	455	<i>pygmæus</i> . (<i>Simia</i>)	577, 579
<i>pusilla</i> . (<i>Didelphys</i>)	4	<i>pyrivorus</i> . (<i>Pteropus</i>)	493, 494
<i>pusilla</i> . (<i>Marmosa</i>)	4	<i>pyrrhopus</i> . (<i>Funisciurus</i>)	109
<i>pusillus</i> . (<i>Lemur</i>)	548	<i>pyrrhopus</i> . (<i>Heliosciurus</i>)	110
<i>pusillus</i> . (<i>Microgale</i>)	488	<i>pyrrhopus</i> . (<i>Macroxus</i>)	109
<i>putida</i> . (<i>Mephitis</i>)	433	<i>pyrrocephalus</i> . (<i>Pteropus</i>)	492
<i>Putorius</i>	446	<i>pyrropus</i> . (<i>Sciurus</i>)	109
<i>Putorius arcticus</i>	449	<i>pyrrotrichus</i> . (<i>Cynomys</i>)	181
<i>Putorius a. kadiacensis</i>	450	<i>quadridactyla</i> . (<i>Myrmecophaga</i>)	24
<i>Putorius arizonensis</i>	452	<i>4-dactylus</i> . (<i>Manis</i>)	28
<i>Putorius cicognani</i>	448	<i>quadrimaculatus</i> . (<i>Tamias</i>)	148
<i>Putorius c. richardsoni</i>	448	<i>quadrimammis</i> . (<i>Capra</i>)	94
<i>Putorius frenatus</i>	453	<i>quadrivittatus</i> . (<i>Sciurus</i>)	153
<i>Putorius longicaudus</i>	451	<i>quadrivittatus</i> . (<i>Tamias</i>)	153
<i>Putorius l. spadix</i>	451		

	PAGE.		PAGE.
quasiater. (<i>Arvicola</i> p.).....	301	Reithrodon megalotis	257
quasiater. (<i>Microtus</i>).....	301	Reithrodontomys.....	255
quaterlinearis. (<i>Mephitis</i>).....	439	Reithrodontomys arizonensis	259
quem. (<i>Capromys</i>).....	357	Reithrodontomys aztecus	257
querceti. (<i>Sciuropterus</i> v.).....	188	Reithrodontomys chrysotis	259
quica. (<i>Didelphis</i>).....	6	Reithrodontomys costaricensis....	261
		Reithrodontomys difficilis	260
Rabienus.....	551	Reithrodontomys dychei	256
radiata. (<i>Talpa</i>).....	481	Reithrodontomys d. nebrascensis. 256	
ramirohitra. (<i>Brachyuromys</i>)....	199	Reithrodontomys g. helvolus....	262
ramona. (<i>Onychomys</i>).....	201	Reithrodontomys h. dickinsoni... 256	
Rangifer.....	40	Reithrodontomys klamathensis ... 259	
Rangifer arcticus	41	Reithrodontomys laceyi	261
Rangifer caribou	40	Reithrodontomys lecontei	255
Rangifer lapponicus	40	Reithrodontomys l. dickinsoni.... 256	
Rangifer montanus	40	Reithrodontomys lecontei impiger. 255	
Rangifer stonei	41	Reithrodontomys longicaudus 258, 259	
Rangifer stonii	41	Reithrodontomys l. pallidus..... 258	
Rangifer tarandus	40	Reithrodontomys megalotis	257
Rangifer terrænovæ	40	Reithrodontomys m. deserti..... 257	
Raphicerus.....	64	Reithrodontomys mexicanus ful-	
Raphicerus campestris.....	64	vescens.....	261
raptor. (<i>Bassaris</i>).....	425	Reithrodontomys pallidus	258
raptor. (<i>Bassariscus</i> a.).....	425	Reithrodontomys rufescens	261
rasse. (<i>Viverra</i>).....	398	Reithrodontomys saturatus	260
Ratufa.....	112	resima. (<i>Phoca</i>).....	460
Ratufa bicolor	113	revoili. (<i>Macroscelides</i>).....	465
Ratufa ephippium	113	Rhaphiceras.....	64
Ratufa e. bunguranensis.....	113	Rhaphiceras campestris.....	64
Ratufa e. sandakanensis.....	113	Rheithrosciurus.....	114
Ratufa indica	112	rhesus. (<i>Macacus</i>).....	567
Ratufa i. maxima.....	112	rhesus. (<i>Simia</i>).....	567
Ratufa macrura	113	Rhinalazon.....	571
Ratufa tennantii	113	Rhinaster	104, 481
rattus. (<i>Mus</i>).....	193, 194	Rhinoceros.....	104
ratwa. (<i>Cervus</i>).....	39	Rhinoceros crossii	105
rebellus. (<i>Vespertilio</i>)	512	Rhinoceros sumatrensis	105
recticornis. (<i>Antilope</i>).....	83	Rhinoceros unicornis	104
recurvus. (<i>Nasalis</i>).....	571	Rhinocerotidæ.....	104
redmani. (<i>Monophyllus</i>).....	533	Rhinolophidæ.....	496
Redunca.....	70	Rhinolophinæ.....	496
Redunca bohor	70	Rhinolophus.....	496
Redunca eleotragus	70	Rhinolophus bicolor	498
Redunca montana	63	Rhinolophus diadema.....	498
redunca. (<i>Antilope</i>).....	70	Rhinolophus ecaudatus.....	540
Reduncina.....	46	Rhinolophus griseus.....	498
reduncus. (<i>Eleotragus</i>).....	71	Rhinolophus larvatus.....	496
reevesi. (<i>Leopardus</i>).....	390	Rhinolophus luctus.....	497
regalis. (<i>Tigris</i>).....	387	Rhinolophus l. rufus	497
regalis. (<i>Vulpes</i>).....	414	Rhinolophus martini.....	499
Reithrodon longicauda	258	Rhinolophus morio.....	497

	PAGE.		PAGE.
Rhinolophus nobilis.....	498	richardsoni. (Dipodops).....	330
Rhinolophus pearsoni.....	496	richardsoni. (Perodipus).....	330
Rhinolophus pearsonii.....	496	richardsoni. (Putorius c.).....	448
Rhinolophus perniger.....	497	richardsoni. (Sorex).....	467
Rhinolophus trifolius.....	498	richardsoni. (Sciurus h.).....	139
Rhinophoca.....	459	richardsoni. (Spermophilus).....	173
Rhinosciurus.....	111	richardsonii. (Arctomys).....	173
Rhinosciurus tupaoides.....	111	richardsonii. (Mustela).....	448
Rhinostictus.....	568, 569	richardsonii. (Sciurus).....	139
Rhinozolis.....	437	rigidus. (Lepus f.).....	371
Rhipidomys.....	243	rigidus. (Sciurus).....	131
Rhipidomys venezuelæ.....	243	ringens. (Spilogale).....	439
Rhithrodontomys.....	255	riparius. (Arvicola).....	287
Rhithrodontomys amœnus.....	262	rixosus. (Putorius).....	449
Rhithrodontomys arizonensis.....	259, 260	roberti. (Gymnuromys).....	199
Rhithrodontomys catalinæ.....	259	Rodentia.....	107
Rhithrodontomys chrysotis.....	259	roensis. (Lutra).....	454
Rhithrodontomys costaricensis.....	261	roosevelti. (Cervus).....	44
Rhithrodontomys difficilis.....	260	Rosmarus arcticus.....	459
Rhithrodontomys dychii.....	256	Rosmarus cookii.....	459
Rhithrodontomys d. nebrascensis.....	256	rosmarus. (Odontobænus).....	459
Rhithrodontomys g. helvolus.....	262	rosmarus. (Phoca).....	458, 459
Rhithrodontomys inexpectatus.....	262	rosmarus. (Trichechus).....	459
Rhithrodontomys l. pallidus.....	259	rostratus. (Oryzomys).....	252
Rhithrodontomys laceyi.....	261	rothschildi. (Dama).....	48
Rhithrodontomys lecontii.....	255	rothschildi. (Odontocetus).....	48
Rhithrodontomys l. dickinsoni.....	256	rotundum. (Desmodon).....	540
Rhithrodontomys l. impiger.....	255, 256	rotundum. (Phyllostoma).....	540
Rhithrodontomys longicaudus.....	258	rotundus. (Desmodus).....	540
Rhithrodontomys l. pallidus.....	258	rowleyi. (Peromyscus).....	228
Rhithrodontomys megalotis.....	257	rowleyi. (Sitomys).....	228
Rhithrodontomys mexicanus ful-		ruber. (Macropus).....	19
vescens.....	261	rubescens. (Papio).....	562
Rhithrodontomys peninsulæ.....	260	rubidus. (Peromyscus o.).....	229
Rhithrodontomys rufescens.....	261	rubra. (Vespertilio).....	512
Rhithrodontomys saturatus.....	260	rubricollis. (Pteropus).....	491
Rhogeessa.....	515	rubripes. (Sciurus).....	109
Rhogeessa tumida.....	515	rubriventer. (Lemur).....	544
Rhogeessa.....	515	rubriventer. (Sciurus).....	116
Rhogeessa tumida.....	515	rufa. (Anisonyx).....	188
Rhombomys.....	193	rufa. (Felis).....	394
Rhychopithecus larvatus.....	571	rufa. (Haplodontia).....	188
rhydinorhis. (Perognathus b.).....	336	rufa. (Phalangista).....	11
Rhynchocyon.....	465	rufescens. (Æpyprymnus).....	17
Rhynchocyon cirnei.....	465	rufescens. (Arvicola).....	287
Rhynchocyon petersi.....	465	rufescens. (Bettongia).....	17
Rhynchopithecus.....	571	rufescens. (Hypsiprymnus).....	17
richardi. (Phoca).....	461	rufescens. (Macropus).....	17
richardii. (Halicyon).....	461	rufescens. (Mus).....	195
richardii. (Phoca).....	462	rufescens. (Mus a.).....	196
richardsoni. (Citellus).....	173	rufescens. (Reithrodontomys).....	261

	PAGE.		PAGE.
rufescens. (Thomomys).....	313	saccatus. (Mus).....	309
ruffa. (Felis).....	394	Sacomys.....	344
ruficauda. (Herpestes).....	403	Saccophorus.....	308
rufidorsum. (Arvicola).....	287	Saccophorus bursarius.....	309
rufifrons. (Lemur).....	544	Saccolpterinae.....	519
rufifrons. (Lemur m.).....	544	Saccolpteryx.....	519
rufifrons. (Prosimia).....	544	Saccolpteryx bilineata.....	520
rufinus. (Hesperomys l.).....	215	sagax. (Peromyscus).....	236
rufinus. (Peromyscus).....	215	Sagoinus.....	553
rufipes. (Lepus l.).....	372	Sagouin.....	553
rufipes. (Prosimia).....	544	Saiga.....	72
rufiventer. (Sciurus).....	124, 127	Saiga tatarica.....	72
rufobrachiat. (Macroxus).....	115	saiga. (Antilope).....	72
rufobrachiat. (Sciurus).....	115	Saimiri.....	558
rufobrachium. (Funambulus)....	115	Saimiri oerstedii.....	559
rufogaster. (Sciurus).....	116	Saimiri sciurea.....	558
rufoniger. (Sciurus).....	121	Saimiri sciureus.....	558, 559
rufus. (Desmodus).....	540	Saimiris.....	558
rufus. (Kangurus).....	19	Saimiris entomophaga.....	559
rufus. (Macropus).....	19	saliens. (Antilope).....	75
rufus. (Molossus).....	521	saltans. (Antilope).....	75
rufus. (Nesomys).....	198	saltator. (Oreotragus).....	63
rufus. (Ornithorhynchus).....	1	saltatrix. (Antilope).....	63, 75
rufus. (Osphranter).....	19	saltatrix. (Calotragus).....	63
rufus. (Potorous).....	16	saltatrixoides. (Antilope).....	63
rufus. (Rhinolophus l.).....	497	saltiana. (Antilope).....	65
rufus. (Vespertilio).....	512	saltiana. (Cerophorus).....	64, 65
Rukaia.....	112, 113	saltiana. (Madoqua).....	64
Rupicapra.....	90	saltiana. (Neotragus).....	65
Rupicapra rupicapra.....	90	saltianus. (Calotragus).....	65
Rupicapra tragus.....	90	saltianus. (Neotragus).....	65
rupicapra. (Antilope).....	71	samarensis. (Sciurus).....	118
rupicapra. (Capra).....	90	sancta-cristobalensis. (Phyllonyc-	
rupicapra. (Rupicapra).....	90	teris).....	534
Rupicaprinae.....	90	sanctæmartæ. (Sigmodon).....	248
rupicola. (Neotoma).....	280	sanctidiegi. (Lepus).....	371, 372
rupicola. (Teonoma).....	280	sanctidiegi. (Lepus a.).....	372
ruppellii. (Guereza).....	574	sanctidiegi. (Lepus f.).....	371
Rusa.....	42	sandakanensis. (Ratufa e.).....	113
russulus. (Crocidura).....	478	Sarcophilus.....	9
russulus. (Sorex).....	478	Sarcophilus ursinus.....	9
rutilus. (Mus).....	283	sartori. (Hippocamelus).....	51
rutilus. (Sciurus).....	109	sartori. (Mazama).....	51
rutilus. (Xerus).....	109	sartorii. (Cervus).....	51
rutledgii. (Semnopithecus).....	572	Satalius barbarus.....	408
sabanus. (Presbytis).....	572	saturatus. (Evotomys g.).....	284
sabanus. (Semnopithecus).....	572	saturatus. (Moschus).....	38
sabrinus. (Sciuropterus).....	186	saturatus. (Myotis y.).....	502
sabrinus. (Sciurus).....	186	saturatus. (Reithrodontomys)....	260
saccata. (Antilope).....	75	saturatus. (Rhithrodontomys)....	260
		Satyris chimpanse.....	579

	PAGE.		PAGE.
satyrus. (Simia).....	577, 579	sciurea. (Petaurista).....	14
saxatilis. (Ochotona).....	365	sciurea. (Phalangista).....	14
sayga. (Capra).....	72	sciurea. (Saimiri).....	558
sayi. (Sciurus).....	124	sciurea. (Simia).....	558
Scaepus.....	22	sciurea. (Voluccella).....	14
Scalops.....	482	sciureus. (Belideus).....	14
Scalops æneus.....	481	sciureus. (Petaurus).....	14
Scalops anastasiæ.....	484	sciureus. (Saimiri).....	558, 559
Scalops aquaticus.....	483	Sciuridæ.....	107
Scalops a. australis.....	484	Sciurinae.....	108
Scalops a. intermedius.....	484	Sciuropterus.....	184
Scalops a. machrinus.....	483	Sciuropterus alpinus.....	184
Scalops a. parvus.....	484	Sciuropterus a. fuliginosus.....	185
Scalops a. texensis.....	485	Sciuropterus a. klamathensis.....	185
Scalops argentatus.....	483	Sciuropterus a. olympicus.....	185
Scalops a. texanus.....	485	Sciuropterus a. oregonensis.....	185
Scalops breweri.....	485	Sciuropterus nigripes.....	186
Scalops californicus.....	482	Sciuropterus sabrinus.....	186
Scalops canadensis.....	481, 483	Sciuropterus volans.....	186
Scalops latimanus.....	481	Sciuropterus v. alpinus.....	184
Scalops m. intermedius.....	484	Sciuropterus v. fuliginosus.....	185
Scalops metallescens.....	481	Sciuropterus v. klamathensis.....	185
Scalops parvus.....	484	Sciuropterus v. olympicus.....	185
Scalops pennsylvanica.....	483	Sciuropterus v. oregonensis.....	185
Scalops townsendii.....	481	Sciuropterus v. querceti.....	188
scalops. (Geomys).....	312	Sciurus.....	113, 115
Scalopus.....	482	Sciurus aberti.....	125, 126
Scalopus aquaticus.....	482, 483	Sciurus a. durangi.....	125
Scalopus a. australis.....	484	Sciurus acrobates.....	186
Scalopus a. intermedius.....	484	Sciurus adolpheï dorsalis.....	131
Scalopus a. machrinus.....	483	Sciurus adolphii dorsalis.....	131
Scalopus a. texensis.....	485	Sciurus æstuans hoffmanni.....	121
Scalopus virginianus.....	482	Sciurus affinis.....	120, 130
Scapanus.....	481	Sciurus albipes nemoralis.....	128
Scapanus californicus.....	482	Sciurus alstoni.....	122
Scapanus dilatus.....	482	Sciurus americanus.....	157
Scapanus orarius.....	482	Sciurus apache.....	123
Scapanus townsendi.....	481	Sciurus arizonensis.....	122
scapterus. (Thomomys).....	314	Sciurus a. huachuca.....	123
scapulatus. (Grymæomys).....	4	Sciurus assamensis.....	120
schadenbergii. (Mydaus).....	432	Sciurus aubryi.....	115
schermæus. (Microtus).....	302	Sciurus auduboni.....	124
schisticeps. (Lagomys).....	365	Sciurus aureigaster.....	127, 130
schisticeps. (Ochotona).....	365, 366	Sciurus a. frumentor.....	128
Schizostoma.....	529	Sciurus a. hypopyrrhus.....	128
schottini. (Cervus t.).....	40	Sciurus aureogaster.....	127, 128
schreberi. (Phoca).....	462	Sciurus a. frumentor.....	128
schreibersii. (Miniopterus).....	516	Sciurus a. leucops.....	129
schreibersii. (Vespertilio).....	516	Sciurus aurogaster.....	127
sciurea. (Chrysothrix).....	558	Sciurus badging.....	117
sciurea. (Didelphis).....	14	Sciurus baluensis.....	119

	PAGE.		PAGE.
<i>Sciurus barbei</i>	112	<i>Sciurus f. anthonyi</i>	135
<i>Sciurus bicolor</i>	113	<i>Sciurus f. nigripes</i>	135
<i>Sciurus b. ephippium</i>	113	<i>Sciurus fremonti</i>	142
<i>Sciurus bivittatus</i>	117	<i>Sciurus f. grahamensis</i>	143
<i>Sciurus blythii</i>	120	<i>Sciurus f. mogollonensis</i>	142
<i>Sciurus boothiæ</i>	131	<i>Sciurus fuliginosus</i>	134
<i>Sciurus brachyotus</i>	108	<i>Sciurus gerrardi</i>	132
<i>Sciurus brodei</i>	112	<i>Sciurus glis</i>	191, 192
<i>Sciurus brookei</i>	117	<i>Sciurus grammurus</i>	175
<i>Sciurus brookii</i>	117	<i>Sciurus griseiflavus</i>	130
<i>Sciurus californicus</i>	176	<i>Sciurus griseoflavus</i>	123
<i>Sciurus caniceps</i>	108	<i>Sciurus griseogena</i>	114, 121
<i>Sciurus capistratus</i>	122	<i>Sciurus griseogenys</i>	121
<i>Sciurus caroli</i>	119	<i>Sciurus griseopectus</i>	116
<i>Sciurus c. griseicauda</i>	119	<i>Sciurus griseus</i>	134
<i>Sciurus carolinensis</i>	122, 131, 132	<i>Sciurus g. anthonyi</i>	135
<i>Sciurus c. extimus</i>	133	<i>Sciurus g. nigripes</i>	135
<i>Sciurus c. fuliginosus</i>	134	<i>Sciurus heermanni</i>	134
<i>Sciurus c. hypophæus</i>	134	<i>Sciurus hiemalis</i>	133
<i>Sciurus c. leucotis</i>	133	<i>Sciurus hippurus</i>	116
<i>Sciurus c. yucatanensis</i>	131	<i>Sciurus h. grayi</i>	117
<i>Sciurus castaneiventris</i>	116	<i>Sciurus hudsonicus baileyi</i>	138
<i>Sciurus c. ningpoensis</i>	116	<i>Sciurus h. dakotensis</i>	138
<i>Sciurus castaneoventris</i>	116	<i>Sciurus h. grahamensis</i>	143
<i>Sciurus c. ningpoensis</i>	116	<i>Sciurus h. gymnicus</i>	137
<i>Sciurus cervicalis</i>	129	<i>Sciurus h. loquax</i>	136
<i>Sciurus ceylonicus</i>	113	<i>Sciurus h. minnesota</i>	138
<i>Sciurus chapmani</i>	121	<i>Sciurus h. petulans</i>	139
<i>Sciurus cinereus</i>	125, 133	<i>Sciurus h. vancouverensis</i>	139
<i>Sciurus colliæi</i>	123, 129	<i>Sciurus hudsonius</i>	136, 186
<i>Sciurus deppei</i>	114	<i>Sciurus h. baileyi</i>	138
<i>Sciurus deppii</i>	114	<i>Sciurus h. *californicus</i>	141
<i>Sciurus dorsalis</i>	126, 131	<i>Sciurus h. dakotensis</i>	138
<i>Sciurus douglasi</i>	140	<i>Sciurus h. gymnicus</i>	137
<i>Sciurus d. albolimbatus</i>	141	<i>Sciurus h. loquax</i>	136
<i>Sciurus d. cascadenis</i>	141	<i>Sciurus h. mearnsi</i>	142
<i>Sciurus d. mearnsi</i>	142	<i>Sciurus h. minnesota</i>	138
<i>Sciurus d. mollipilosus</i>	140	<i>Sciurus h. mogollonensis</i>	142
<i>Sciurus durangi</i>	125	<i>Sciurus h. petulans</i>	139
<i>Sciurus eborivorus</i>	108	<i>Sciurus h. richardsoni</i>	139
<i>Sciurus elphinstonii</i>	112	<i>Sciurus h. vancouverensis</i>	139
<i>Sciurus ephippium</i>	113	<i>Sciurus hypopyrrhus</i>	122, 127, 128, 131
<i>Sciurus e. bunguranensis</i>	113	<i>Sciurus hypoxanthus</i>	127
<i>Sciurus erythræus</i>	116	<i>Sciurus indicus</i>	112
<i>Sciurus e. punctatissimus</i>	116	<i>Sciurus insignis</i>	111
<i>Sciurus erythrogyens</i>	109	<i>Sciurus intermedius</i>	131
<i>Sciurus europæus</i>	115	<i>Sciurus isabella</i>	110
<i>Sciurus everetti</i>	111	<i>Sciurus italicus</i>	115
<i>Sciurus finlaysoni</i>	120	<i>Sciurus jentinki</i>	118
<i>Sciurus flavimanus</i>	116	<i>Sciurus kelaarti</i>	112
<i>Sciurus fossor</i>	134	<i>Sciurus langsdorffi</i>	121

	PAGE.		PAGE.
<i>Sciurus lateralis</i>	168	<i>Sciurus penicillatus</i>	112
<i>Sciurus laticaudatus</i>	111	<i>Sciurus pennsylvanicus</i>	133
<i>Sciurus lemniscatus</i>	109	<i>Sciurus poensis</i>	110
<i>Sciurus leporinus</i>	135	<i>Sciurus poliopus cervicalis</i>	129
<i>Sciurus leucogaster</i>	127	<i>Sciurus p. nemoralis</i>	128
<i>Sciurus leucogenys</i>	109	<i>Sciurus p. peregrinator</i>	129
<i>Sciurus leucomus</i>	118	<i>Sciurus prevosti</i>	119
<i>Sciurus leucops</i>	127, 129	<i>Sciurus p. borneensis</i>	119
<i>Sciurus leucotis</i>	133	<i>Sciurus p. kuchingensis</i>	119
<i>Sciurus limitis</i>	124	<i>Sciurus prevostii</i>	119
<i>Sciurus lis</i>	115	<i>Sciurus p. borneoensis</i>	119
<i>Sciurus locrioides</i>	120	<i>Sciurus pryri</i>	117
<i>Sciurus lokrioides</i>	120	<i>Sciurus punctatus</i>	115
<i>Sciurus lowii</i>	118	<i>Sciurus purpureus</i>	112
<i>Sciurus ludovicianus</i>	124, 130	<i>Sciurus pyrropus</i>	109
<i>Sciurus l. limitis</i>	124	<i>Sciurus quadrivittatus</i>	153
<i>Sciurus l. vicinus</i>	125	<i>Sciurus richardsonii</i>	139
<i>Sciurus lysteri</i>	158	<i>Sciurus rigidus</i>	131
<i>Sciurus m. formosanus</i>	111	<i>Sciurus rubripes</i>	109
<i>Sciurus macroura</i>	124	<i>Sciurus rubriventer</i>	116
<i>Sciurus macrourus</i>	113	<i>Sciurus rufiventer</i>	124, 127
<i>Sciurus maculatus</i>	115	<i>Sciurus r. neglectus</i>	125
<i>Sciurus madagascariensis</i>	552	<i>Sciurus r. texensis</i>	124
<i>Sciurus magnicaudatus</i>	124	<i>Sciurus rufobrachiatus</i>	115
<i>Sciurus malabaricus</i>	112	<i>Sciurus rufogaster</i>	116
<i>Sciurus maximus</i>	112	<i>Sciurus rufoniger</i>	121
<i>Sciurus melania</i>	131	<i>Sciurus r. pluto</i>	119
<i>Sciurus melanotis</i>	107	<i>Sciurus rutilus</i>	109
<i>Sciurus mexicanus</i>	165	<i>Sciurus sabrinus</i>	186
<i>Sciurus migratorius</i>	133	<i>Sciurus saltuensis bondæ</i>	132
<i>Sciurus mindanensis</i>	118	<i>Sciurus samarensis</i>	118
<i>Sciurus modestus</i>	120	<i>Sciurus sayi</i>	124
<i>Sciurus mollipilosus</i>	140	<i>Sciurus sharpii</i>	110
<i>Sciurus mustelinus</i>	127	<i>Sciurus sinaloensis</i>	130
<i>Sciurus nayaritensis</i>	122	<i>Sciurus socialis</i>	130
<i>Sciurus nicoyana</i>	131	<i>Sciurus splendens</i>	120
<i>Sciurus niger</i>	14, 125, 127, 133	<i>Sciurus stangeri</i>	108
<i>Sciurus n. ludovicianus</i>	123	<i>Sciurus steerii</i>	118
<i>Sciurus n. melanonotus</i>	122	<i>Sciurus striatus</i>	143, 157
<i>Sciurus nigrivittatus</i>	117	<i>Sciurus subalbidus</i>	108
<i>Sciurus nordhoffi</i>	108	<i>Sciurus subauratus</i>	124
<i>Sciurus norfolcensis</i>	14	<i>Sciurus tæniurus</i>	114
<i>Sciurus notatus</i>	117	<i>Sciurus temminckii</i>	108
<i>Sciurus n. miniatus</i>	117	<i>Sciurus tennantii</i>	113
<i>Sciurus occidentalis</i>	124	<i>Sciurus tenuis</i>	120
<i>Sciurus ocularis</i>	192	<i>Sciurus tephrogaster</i>	114
<i>Sciurus oculatus</i>	122	<i>Sciurus texianus</i>	124
<i>Sciurus olivaceus</i>	110	<i>Sciurus tridecemlineatus</i>	166
<i>Sciurus ornatus</i>	110	<i>Sciurus variabilis</i>	132
<i>Sciurus palliatus</i>	110	<i>Sciurus variegatus</i>	
<i>Sciurus palmarum</i>	110, 112		127, 128, 129, 130, 175

	PAGE.		PAGE.
Sciurus vittatus.....	117	Semnopithecus sumatranus.....	572
Sciurus v. typicus.....	117	Semno-pitheque.....	571
Sciurus volans.....	184	senegalensis. (Alcelaphus).....	58
Sciurus volucella.....	186	senegalensis. (Antilope d.).....	68
Sciurus vulgaris.....	113, 115	senegalensis. (Damalis).....	58
Sciurus v. hudsonicus.....	136	senegalensis. (Felis).....	391, 392
Sciurus vulpinus.....	125, 133	senegalensis. (Galago).....	549
Sciurus w. cervicalis.....	129	senegalensis. (Galagoides).....	549
Sciurus w. nemoralis.....	128	senegalensis. (Galeopardus).....	391
Sciurus whiteheadi.....	107	senegalensis. (Genetta).....	398
Sciurus xanthotus.....	121	senegalensis. (Viverra).....	398
Sciurus yucatanensis.....	131	senex. (Tamias).....	148
sclateri. (Erinaceus).....	466	senicula. (Simia).....	554
sclateri. (Lithocranius).....	80	seniculus. (Alouatta).....	554
Scopophorus.....	63	seniculus. (Mycetes).....	554
Scopophorus montanus.....	64	septentrionalis. (Vespertilio g.)..	504
scopulicola. (Phoca).....	461	sericea. (Talpa).....	483
scotinus. (Miniopterus).....	516	serpens. (Microtus).....	302
Scotophilus.....	505, 506, 514	serval. (Felis).....	391
Scotophilus greenii.....	509	serval. (Felis l.).....	391
Scotophilus hesperus.....	506	serval. (Galeopardus).....	391
Scotophilus kuhlii.....	515	serval. (Leopardus).....	391
Scotophilus minutus.....	512	servalina. (Chaus).....	391
Scotophilus miradorensis.....	511	servalina. (Felis).....	390, 391
scotti. (Urocyon c.).....	417	Setifer.....	487
scripta. (Felis).....	389	Setifer setosus.....	488
scrobiculatum. (Phyllostoma)....	529	Setiger.....	487
scrofa. (Sus).....	31	Setiger setosus.....	488
scythica. (Antilope).....	72	Setiger variegatus.....	487
selousi. (Equus b.).....	102	Setonix.....	18
selousii. (Equus b.).....	102	setosa. (Echidna).....	2
Selysius.....	500	setosus. (Echinopus).....	2
semicircularis. (Hyrax).....	106	setosus. (Ericulus).....	488
semilunaris. (Phoca).....	463	setosus. (Erinaceus).....	487, 488
seminudus. (Pteropus).....	493	setosus. (Hypsiprymnus).....	16
semipalmatus. (Aulacodus).....	358	setosus. (Setifer).....	488
semispinosus. (Erinaceus).....	487	setosus. (Setiger).....	488
semispinosus. (Hemicentetes)....	487	setosus. (Sorex).....	468
Semnopithecus.....	571, 573	setosus. (Tachyglossus).....	2
Semnopithecus anchises.....	573	setosus. (Tachyglossus a.).....	2
Semnopithecus chrysomelas.....	572	sharpii. (Sciurus).....	110
Semnopithecus cristatus.....	572	shawi. (Gerbillus).....	193
Semnopithecus cruciger.....	572	shawi. (Meriones).....	193
Semnopithecus cucullatus.....	573	shumaginensis. (Sorex a.).....	470
Semnopithecus entellus.....	573	shumaginensis. (Sorex g.).....	470
Semnopithecus femoralis.....	572	Siamanga.....	575, 576
Semnopithecus hosei.....	572	Siamanga syndactyla.....	576
Semnopithecus jubatus.....	573	sibiricus. (Moschus).....	38
Semnopithecus pruinosis.....	572	Sicista.....	349
Semnopithecus rutledgii.....	572	Sicista subtilis.....	349
Semnopithecus sabanus.....	572	Sicistinae.....	349

	PAGE.		PAGE.
sierræ. (<i>Lepus c.</i>)	385	<i>Simia pithecia</i>	556
<i>Sigmodon</i>	244	<i>Simia polycomos</i>	573
<i>Sigmodon borucae</i>	247	<i>Simia porcaria</i>	566
<i>Sigmodon b. chiriquensis</i>	248	<i>Simia pygmæus</i>	577, 579
<i>Sigmodon colimæ</i>	246	<i>Simia p. chimpanse</i>	579
<i>Sigmodon hispidus</i>	244	<i>Simia rhesus</i>	567
<i>Sigmodon h. arizonæ</i>	246	<i>Simia satyrus</i>	577, 579
<i>Sigmodon h. borucae</i>	247	<i>Simia sciurea</i>	558
<i>Sigmodon h. chiriquensis</i>	248	<i>Simia senicula</i>	554
<i>Sigmodon h. inexoratus</i>	246	<i>Simia sphingiola</i>	566
<i>Sigmodon h. littoralis</i>	244	<i>Simia sphinx</i>	562
<i>Sigmodon h. mascotensis</i>	246	<i>Simia syndactyla</i>	576
<i>Sigmodon h. texensis</i>	245	<i>Simia troglodytes</i>	579
<i>Sigmodon h. toltecus</i>	247	<i>Simia ursina</i>	554
<i>Sigmodon leucotis</i>	248	<i>Simiidae</i>	577
<i>Sigmodon mascotensis</i>	246	<i>similis. (Dipodomys)</i>	324
<i>Sigmodon minimus</i>	248	<i>similis. (Dipodomys m.)</i>	324
<i>Sigmodon sanctæmartæ</i>	248	<i>similis. (Macroxus)</i>	120
<i>silvicultrix. (Antilope)</i>	60	<i>similis. (Sorex v.)</i>	469
<i>Simenia</i>	407	<i>simiolus. (Dipodomys)</i>	324
<i>Simenia simensis</i>	411	<i>simiolus. (Dipodomys m.)</i>	324
<i>simensis. (Canis)</i>	411	<i>simplex. (Neotoma m.)</i>	265
<i>simensis. (Simenia)</i>	411	<i>simplex. (Spermosciurus)</i>	109
<i>Simia</i>	577	<i>Simplicidentata</i>	107
<i>Simia æthiops</i>	568	<i>simus. (Hapalemur)</i>	547
<i>Simia agrias</i>	577	<i>sinaitica. (Capra)</i>	92
<i>Simia belzebul</i>	554	<i>sinaloensis. (Sciurus)</i>	130
<i>Simia capucina</i>	560, 561	<i>Sinetheres</i>	360
<i>Simia carpolegos</i>	567	<i>sing-sing. (Cervus)</i>	67
<i>Simia cephus</i>	569	<i>sing-sing. (Kobus)</i>	68
<i>Simia chimpanse</i>	579	<i>Sipalus</i>	11
<i>Simia cristatus</i>	572	<i>Sirenia</i>	29
<i>Simia cynomolgus</i>	567	<i>sitkensis. (Odocoileus c.)</i>	49
<i>Simia entellus</i>	573	<i>sitkensis. (Odontocælus c.)</i>	49
<i>Simia erythræa</i>	567	<i>Sitomys</i>	202
<i>Simia fascicularis</i>	567	<i>Sitomys a. arizonæ</i>	212
<i>Simia hamadryas</i>	565	<i>Sitomys a. canadensis</i>	217
<i>Simia hypoleuca</i>	562	<i>Sitomys a. thurberi</i>	221
<i>Simia innuus</i>	566	<i>Sitomys auripectus</i>	229
<i>Simia jacchus</i>	553	<i>Sitomys gilberti</i>	227
<i>Simia johnii</i>	573	<i>Sitomys herronii</i>	233
<i>Simia lar</i>	575	<i>Sitomys major</i>	232
<i>Simia leuciscus</i>	575	<i>Sitomys martirensis</i>	237
<i>Simia leucocephala</i>	556	<i>Sitomys rowleyi</i>	228
<i>Simia maimon</i>	563	<i>Sitomys r. pinalis</i>	228
<i>Simia maura</i>	572	<i>Sitomys subgriseus</i>	207
<i>Simia nasica</i>	571	<i>Sminthus</i>	349
<i>Simia nemestrinus</i>	567	<i>smithi. (Panthera)</i>	390
<i>Simia nictitans</i>	569	<i>smithii. (Cheirogaleus)</i>	548
<i>Simia œdipus</i>	553	<i>Smutsia</i>	27
<i>Simia paniscus</i>	559	<i>socialis. (Cynomys)</i>	180

	PAGE.		PAGE.
socialis. (Sciurus).....	130	Sorex palustris.....	473
soemmerringi. (Antilope).....	78	Sorex parvus.....	476
soemmerringi. (Gacella).....	78	Sorex personatus.....	466
soemmerringi. (Gazella).....	78	Sorex platyrhinus.....	467
soemmerringii. (Antilope).....	78	Sorex platyrhynchus.....	467
sola. (Neotoma d.).....	272	Sorex proboscideus.....	465
Solenodon.....	486	Sorex richardsoni.....	467
Solenodon cubanus.....	486	Sorex russulus.....	478
Solenodon paradoxus.....	486	Sorex setosus.....	468
Solenodontidæ.....	486	Sorex suckleyi.....	468
somalensis. (Lepus).....	382	Sorex talpoides.....	474
somalica. (Procavia b.).....	106	Sorex thompsoni.....	472
somalica. (Procavia b.).....	106	Sorex trowbridgii.....	470
somalicus. (Equus a.).....	104	Sorex vagrans.....	468
sondaica. (Tigris).....	387	Sorex v. similis.....	469
sonoriensis. (Hesperomys).....	213	Soricidæ.....	466
sonoriensis. (Peromyscus).....	213	soricina. (Glossophaga).....	532, 533
sonoriensis. (Peromyscus a.).....	213	Soricinæ.....	466
sonoriensis. (Peromyscus l.).....	213	soricinus. (Vespertilio).....	531, 532
Sorex.....	466	Soriciscus.....	474
Sorex a. shumaginisensis.....	470	spadix. (Putorius).....	451
Sorex angusticeps.....	474	spadix. (Putorius l.).....	451
Sorex aquaticus.....	482	Spalacidæ.....	307
Sorex araneus.....	466, 478	Spalacinae.....	307
Sorex b. palmeri.....	473	Spalax.....	307
Sorex brevicaudus.....	474	Spalax microphthalmus.....	307
Sorex californicus.....	471	Spalax typhlus.....	307
Sorex carolinensis.....	476	spasma. (Vespertilio).....	499
Sorex cinereus.....	477	spatulatus. (Fiber).....	304
Sorex cooperi.....	467	speciosus. (Tamias).....	149
Sorex cristatus.....	480, 481	spectabilis. (Dipodomys).....	326
Sorex daubentonii.....	478	spectrum. (Lemur).....	551
Sorex dekeyi.....	474	spectrum. (Pteropus).....	491
Sorex fimbripes.....	467	spectrum. (Vespertilio).....	528
Sorex fodiens.....	478	spekei. (Gazella).....	77
Sorex fosteri.....	467	spekei. (Pectinator).....	354
Sorex fumeus.....	467, 468	spekii. (Gacella).....	77
Sorex g. shumaginisensis.....	470	spekii. (Pectinator).....	354
Sorex haydeni.....	467	spekii. (Tragelaphus).....	86, 87
Sorex hoyi.....	472	spelæa. (Eonycteris).....	496
Sorex idahoensis.....	467	spelæus. (Macroglossus).....	495, 496
Sorex leucodon.....	478	speleus. (Odocoileus).....	45
Sorex madagascariensis.....	479	speoris. (Vespertilio).....	498
Sorex montereyensis.....	470	Spermatophilus.....	160
Sorex moschata.....	479	Spermophilopsis.....	160
Sorex myoides.....	478	Spermophilus.....	160
Sorex obscurus.....	469	Spermophilus annulatus.....	179
Sorex o. ventralis.....	469	Spermophilus armatus.....	173
Sorex orinus.....	472	Spermophilus barrowensis.....	172
Sorex ornatus.....	471	Spermophilus beecheyi fisheri.....	177
Sorex pacificus.....	471	Spermophilus beldingi.....	174

	PAGE.		PAGE.
<i>Spermophilus bernardinus</i>	170	<i>Spilogale ambarvalis</i>	441
<i>Spermophilus buckleyi</i>	179	<i>Spilogale arizonæ martirensis</i>	441
<i>Spermophilus chrysodeirus</i>	169	<i>Spilogale gracilis</i>	441
<i>Spermophilus c. bernardinus</i>	170	<i>Spilogale indianola</i>	440
<i>Spermophilus c. brevicaudus</i>	170	<i>Spilogale interrupta</i>	438, 439
<i>Spermophilus cinerascens</i>	169	<i>Spilogale olympica</i>	441
<i>Spermophilus columbianus</i>	172	<i>Spilogale phenax</i>	440
<i>Spermophilus couchii</i>	175	<i>Spilogale p. latifrons</i>	440
<i>Spermophilus elegans</i>	174	<i>Spilogale ringens</i>	439
<i>Spermophilus empetra</i>	171	<i>Spilogale tenuis</i>	440
<i>Spermophilus e. kadiacensis</i>	172	<i>spilotus</i> . (<i>Perognathus p.</i>).....	337
<i>Spermophilus e. kodiacensis</i>	172	<i>spinatus</i> . (<i>Perognathus</i>).....	343
<i>Spermophilus franklini</i>	168	<i>spissigrada</i> . (<i>Mephitis</i>).....	435
<i>Spermophilus grammurus</i>	176	<i>spissigrada</i> . (<i>Mephitis o.</i>).....	435
<i>Spermophilus g. beecheyi</i>	176	<i>splendens</i> . (<i>Neotoma</i>).....	264
<i>Spermophilus g. buckleyi</i>	179	<i>splendens</i> . (<i>Sciurus</i>).....	120
<i>Spermophilus g. douglasi</i>	179	<i>splendidula</i> . (<i>Grimmia</i>).....	62
<i>Spermophilus g. fisheri</i>	177	<i>squamipes</i> . (<i>Mus</i>).....	244
<i>Spermophilus gunnisoni</i>	181	<i>squamipes</i> . (<i>Nectomys</i>).....	244
<i>Spermophilus harrisii</i>	160	<i>Stachycolobus</i>	574
<i>Spermophilus lateralis</i>	168	<i>stangeri</i> . (<i>Heliosciurus</i>).....	108
<i>Spermophilus leucurus</i>	161	<i>stangeri</i> . (<i>Macroxus</i>).....	108
<i>Spermophilus l. cinnamomeus</i>	162	<i>stangeri</i> . (<i>Protoxerus</i>).....	108
<i>Spermophilus macrourus</i>	175	<i>stangeri</i> . (<i>Sciurus</i>).....	108
<i>Spermophilus mexicanus</i>	165	<i>steadmanni</i> . (<i>Cynictis</i>).....	404
<i>Spermophilus m. parvidens</i>	165	<i>steerii</i> . (<i>Cervus</i>).....	43
<i>Spermophilus mohavensis</i>	165	<i>steerii</i> . (<i>Sciurus</i>).....	118
<i>Spermophilus nelsoni</i>	163	<i>stelleri</i> . (<i>Eumetopias</i>).....	457
<i>Spermophilus oregonus</i>	175	<i>stelleri</i> . (<i>Lutra</i>).....	456
<i>Spermophilus p. kodiacensis</i>	171	<i>stelleri</i> . (<i>Otaria</i>).....	457
<i>Spermophilus richardsoni</i>	173	<i>Stenoderma tolteca</i>	539
<i>Spermophilus r. townsendi</i>	174	<i>Stenodermatinae</i>	535
<i>Spermophilus s. macrospilotus</i> ...	163	<i>Stentor fuscus</i>	554
<i>Spermophilus tereticaudus</i>	164	<i>stephensi</i> . (<i>Perognathus</i>).....	340
<i>Spermophilus townsendii</i>	173	<i>stephensi</i> . (<i>Peromyscus</i>).....	230
<i>Spermophilus tridecemlineatus</i> ...	166	<i>sticte</i> . (<i>Lupus</i>).....	412
<i>Spermophilus t. olivaceus</i>	167	<i>stolzmanni</i> . (<i>Ichthyomys</i>).....	262
<i>Spermophilus t. pallidus</i>	167	<i>stolzmanni</i> . (<i>Oryzomys</i>).....	253
<i>Spermophilus t. parvus</i>	167	<i>stonei</i> . (<i>Microtus</i>).....	290
<i>Spermophilus t. texensis</i>	167	<i>stonei</i> . (<i>Ovis</i>).....	96
<i>Spermophilus wortmani</i>	171	<i>stonei</i> . (<i>Rangifer</i>).....	41
<i>Spermosciurus simplex</i>	109	<i>stonii</i> . (<i>Ovis</i>).....	96
<i>sphingiola</i> . (<i>Simia</i>).....	566	<i>stonii</i> . (<i>Rangifer</i>).....	41
<i>sphinx</i> . (<i>Cynocephalus</i>).....	562	<i>stramineus</i> . (<i>Mycetes</i>).....	554
<i>sphinx</i> . (<i>Cynopterus</i>).....	493	<i>streatori</i> . (<i>Neotoma f.</i>).....	265
<i>sphinx</i> . (<i>Papio</i>).....	562	<i>streatori</i> . (<i>Perodipus</i>).....	329
<i>sphinx</i> . (<i>Simia</i>).....	562	<i>streatori</i> . (<i>Putorius</i>).....	449
<i>sphinx</i> . (<i>Vespertilio</i>).....	493	<i>Strepsiceros</i>	88
<i>spicilegus</i> . (<i>Peromyscus</i>).....	235	<i>Strepsiceros capensis</i>	88
<i>Spilocus</i>	11	<i>Strepsiceros imberbis</i>	88
<i>Spilogale</i>	438	<i>Strepsiceros kudu</i>	88

	PAGE.		PAGE.
Strepsiceros strepsiceros.....	88	surberi. (Neotoma m.).....	268
Strepsiceros s. zambesiensis.....	88	Sus.....	31
Strepsiceros suara.....	72	Sus africanus.....	33
Strepsiceros tendal.....	88	Sus ahænobarbus.....	32
strepsiceros. (Antilope).....	88	Sus albirostris.....	35
strepsiceros. (Calliope).....	88	Sus aruensis.....	31
strepsiceros. (Cemas).....	71	Sus balabacensis.....	32
strepsiceros. (Strepsiceros).....	88	Sus celebensis.....	32
striata. (Hyæna).....	405	Sus hydrochæris.....	365
striatus. (Sciurus).....	143, 157	Sus libycus.....	31
striatus. (Tamias).....	157	Sus marchei.....	32
striatus. (Tigris).....	387	Sus palavensis.....	32
Strigoscus.....	11	Sus papuensis.....	31
strongloceros. (Cervus).....	44	Sus philippinensis.....	32
Stylloceros muntjacus.....	39	Sus scrofa.....	31
Styllocerus.....	38	Sus s. barbarus.....	31
suara. (Strepsiceros).....	72	Sus s. ferus.....	31
subalbidus. (Sciurus).....	108	Sus s. nigripes.....	31
subarcticus. (Peromyscus t.).....	220	Sus setosus aper.....	34
subauratus. (Sciurus).....	124	Sus tajacu.....	34
subcinctus. (Lepus f.).....	371	Sus timorensis.....	32
subflavus. (Pipistrellus).....	508	swaynei. (Bubalis).....	55
subflavus. (Vespertilio).....	508	swaynei. (Madoqua).....	65
subgriseus. (Peromyscus).....	207	swaynii. (Bubalis).....	55
subgriseus. (Sitomys).....	207	swaynii. (Madoqua).....	65
subhemachelus. (Bibos).....	100	swinderenianus. (Aulacodus).....	358
subrufum. (Hemiderma).....	531	swinderenianus. (Thryonomys).....	358
subtilis. (Mus).....	349	sylvatica. (Antilope).....	85
subtilis. (Sicista).....	349	sylvaticus. (Lepus).....	368
Subula.....	50	sylvaticus. (Mus).....	196
subulatus. (Myotis).....	504	sylvaticus. (Tragelaphus).....	85
subulatus. (Vespertilio).....	504	sylvaticus. (Tragelaphus s.).....	85
Subulo.....	50	sylvestris. (Cervus t.).....	40
suckleyi. (Sorex).....	468	sylvestris. (Felis).....	391
Suidæ.....	31	Sylvicapra.....	60
suillus. (Mus).....	348	Sylvicapra coronata.....	61
Suina.....	31	Sylvicapra pygmæa.....	61
sumatrana. (Felis).....	390	Sylvicola.....	286
sumatrana. (Panthera).....	390	Sylvilagus.....	366, 368
sumatranus. (Ceratorhinus).....	105	Symphalangus.....	575
sumatranus. (Elephas).....	106	Synaptomys.....	305
sumatranus. (Semnopithecus).....	572	Synaptomys cooperi.....	305
sumatrensis. (Antilope).....	90	Synaptomys fatuus.....	305
sumatrensis. (Rhinoceros).....	105	syndactyla. (Siamanga).....	576
Suncus.....	478	syndactyla. (Simia).....	576
sundevalli. (Cephalolophus m.).....	61	Syndactylus.....	575
sundevalli. (Cephalophus m.).....	61	syndactylus. (Hylobates).....	576
sundevalli. (Cephalophus p.).....	61	syndactylus. (Pithecus).....	576
sundevalli. (Gazella d.).....	76	Synotus.....	517
superciliaris. (Lepus).....	373		
superciliaris. (Sylvilagus).....	374	tabascensis. (Didelphys m.).....	8

	PAGE.		PAGE.
Tachyglossidæ.....	2	Tamias a. pallidus.....	156
Tachyglossus.....	2	Tamias c. inyoensis.....	149
Tachyglossus aculeatus.....	2	Tamias caurinus.....	152, 153
Tachyglossus a. setosus.....	2	Tamias chrysodeirus.....	169
Tachyglossus setosus.....	2	Tamias cinerascens.....	169
tæniata. (Talpa).....	481	Tamias cinereicollis.....	153
Tæniogale.....	402	Tamias cooperi.....	144
tæniurus. (Sciurus).....	114	Tamias dorsalis.....	143
Tagassu.....	34	Tamias frater.....	150
Tagassu angulatum.....	34	Tamias hopiensis.....	156
Tagassu a. humerale.....	34, 35	Tamias leucurus.....	161
Tagassu pecari.....	35	Tamias l. cinnamomeus.....	162
Tagassu torvus.....	35	Tamias l. peninsulae.....	162
Tagassuidæ.....	34	Tamias macrorhabdotes.....	148
taguanoides. (Petaurus).....	13	Tamias merriami.....	146
tajacu. (Dicotyles).....	34	Tamias minimus.....	156
tajacu. (Sus).....	34	Tamias m. alpinus.....	157
Talpa.....	480	Tamias m. consobrinus.....	156
Talpa cupreata.....	483	Tamias m. pictus.....	157
Talpa europæa.....	480	Tamias nexu.....	147
Talpa e. flava.....	483	Tamias obscurus.....	146
Talpa e. flavescens.....	483	Tamias panamintinus.....	151
Talpa flava.....	483	Tamias pricei.....	145
Talpa fusca.....	483	Tamias quadrimaculatus.....	148
Talpa longicaudata.....	481	Tamias quadrivittatus.....	153
Talpa machrina.....	483	Tamias q. affinis.....	155
Talpa pennantii.....	483	Tamias q. borealis.....	155
Talpa radiata.....	481	Tamias q. felix.....	154
Talpa sericea.....	483	Tamias q. gracilis.....	156
Talpa tæniata.....	481	Tamias q. luteiventris.....	154
Talpidæ.....	479	Tamias q. neglectus.....	155
Talpinæ.....	480	Tamias q. pallidus.....	143
talpinus. (Lemmings).....	307	Tamias senex.....	148
talpinus. (Mus).....	307	Tamias speciosus.....	149
talpoides. (Blarina b.).....	475	Tamias s. inyoensis.....	149
talpoides. (Cricetus).....	316	Tamias striatus.....	157
talpoides. (Sorex).....	474	Tamias s. griseus.....	159
talpoides. (Thomomys).....	316	Tamias s. lysteri.....	158
Talposorex.....	474	Tamias townsendi.....	144
Tamandua.....	23	Tamias t. hindsii.....	144
Tamandua bivittata.....	24	Tamias t. hindsii.....	144
Tamandua longicauda.....	24	Tamias t. littoralis.....	146
Tamandua longicaudata.....	24	Tamias t. ochrogenys.....	145
Tamandua tetradactyla.....	23, 24	Tamias t. pricei.....	145
Tamanduas.....	23	Tamias t. pricii.....	145
Tamia.....	143	Tamias townsendii.....	144
Tamias.....	143, 157	Tamias wortmani.....	171
Tamias alpinus.....	157	Tamiasciurus.....	114, 136
Tamias amoenus.....	152	tana. (Tupaia).....	464
Tamias asiaticus borealis.....	155	tanala. (Eliurus).....	199
Tamias a. merriami.....	146	Tapeti.....	366

	PAGE.		PAGE.
Taphonycteris.....	521	taxus. (Taxidea).....	430
Taphozous.....	521	taxus. (Ursus).....	430
Taphozous affinis.....	521	Tayassu.....	34
Taphozous perforatus.....	521	Tayassu a. humeralis.....	34
Tapir.....	101	Tayassu pecari.....	35
Tapirella.....	102	Tayassu torvus.....	35
Tapirella bairdi.....	102	taylori. (Hesperomys).....	203
Tapiridæ.....	101	taylori. (Peromyscus).....	203
Tapirus.....	101	Tayra.....	443
Tapirus bicolor.....	101	Tayra b. irara.....	443
Tapirus indicus.....	101	teguina. (Acodon).....	263
Tapirus malayanus.....	101	teguina. (Hesperomys).....	263
Tapirus tapirus.....	101	teliotis. (Atalapha).....	513
tapirus. (Tapirus).....	101	teliotis. (Lasiurus b.).....	513
tapouaru. (Didelphis).....	12	telmalemonus. (Lepus).....	367
Tapyra.....	101	temminckii. (Sciurus).....	108
Tarandus.....	400	temminckii. (Vespertilio).....	515
tarandus. (Cervus).....	40	tendal. (Antilope).....	88
tarandus. (Rangifer).....	40	tendal. (Strepsiceros).....	88
Tardigradus coucang.....	549, 550	tennantii. (Ratufa).....	113
Tarsiidæ.....	550	tennantii. (Sciurus).....	113
Tarsius.....	550	Tenotis.....	143
Tarsius tarsius.....	551	Tenrec.....	486
tarsius. (Lemur).....	550, 551	Tenrec ecaudatus.....	486, 487
tarsius. (Tarsius).....	551	Tenrecidæ.....	486
tatarica. (Capra).....	72	Tenrecinæ.....	486
tatarica. (Saiga).....	72	tenuidorsalis. (Vespertilio).....	502
Tatu.....	26	tenuis. (Sciurus).....	120
Tatu novemcinctum.....	26, 27	tenuis. (Spilogale).....	440
Tatuinæ.....	26	Teonoma.....	277
Tatusia.....	25, 26	Teonoma acraea.....	279
Tatusia minuta.....	25	Teonoma cinerea.....	277
Tatusia leptorhynchus.....	27	Teonoma c. acraea.....	279
Tatusie.....	25	Teonoma c. columbiana.....	279
taurina. (Antilope).....	59	Teonoma c. drummondi.....	278
taurina. (Connochaetes).....	59	Teonoma c. occidentalis.....	278
taurinus. (Catoblepas).....	59	Teonoma cinnamomea.....	281
taurinus. (Connochaetes).....	59	Teonoma fusca.....	279
Taurotragus.....	89	Teonoma f. apicalis.....	280
Taurotragus o. livingstonii.....	90	Teonoma grangeri.....	280
Taurotragus oryx livingstonii.....	90	Teonoma oreolestes.....	280
taurus. (Bos).....	99	Teonoma rupicola.....	280
Taxidea.....	430	tephrogaster. (Sciurus).....	114
Taxidea americana.....	430	tereticaudus. (Citellus).....	164
Taxidea a. berlandieri.....	431	tereticaudus. (Spermophilus).....	164
Taxidea a. neglecta.....	430	Terpone.....	60
Taxidea berlandieri.....	431	terrænovæ. (Arvicola).....	290
Taxidea taxus.....	430	terrænovæ. (Microtus).....	290
Taxidea t. berlandieri.....	431	terrænovæ. (Rangifer).....	40
Taxidea t. neglecta.....	430	terrestris. (Hippopotamus).....	101
taxus. (Meles).....	432	Terricola.....	286

	PAGE.		PAGE.
tesselatus. (<i>Vespertilio</i>).....	512	<i>Thomomys d. fuscus</i>	316
tetradactyla. (<i>Manis</i>).....	28	<i>Thomomys fulvus</i>	317
tetradactyla. (<i>Myrmecophaga</i>)...	23	<i>Thomomys f. martirensis</i>	318
tetradactyla. (<i>Tamandua</i>)....	23, 24	<i>Thomomys f. nigricans</i>	318
tetradactylus. (<i>Oryzoryctes</i>)....	489	<i>Thomomys helleri</i>	316
tetradactylus. (<i>Oryzoryctes</i>)....	489	<i>Thomomys laticeps</i>	315
<i>Tetramerodon</i>	287	<i>Thomomys leucodon</i>	314
texana. (<i>Hesperomys</i>).....	218	<i>Thomomys martirensis</i>	318
texanus. (<i>Dorcelaphus</i>).....	47	<i>Thomomys melanops</i>	317
texanus. (<i>Scalops a.</i>).....	485	<i>Thomomys monticola</i>	315
texensis. (<i>Citellus t.</i>).....	167, 168	<i>Thomomys monticolus</i>	315
texensis. (<i>Geomys</i>).....	310	<i>Thomomys operarius</i>	314
texensis. (<i>Heteromys</i>).....	347	<i>Thomomys peregrinus</i>	320
texensis. (<i>Liomys</i>).....	347	<i>Thomomys perpallidus</i>	321
texensis. (<i>Odocoileus a.</i>).....	47	<i>Thomomys rufescens</i>	313
texensis. (<i>Odontocœlus a.</i>).....	47	<i>Thomomys scapterus</i>	314
texensis. (<i>Oryzomys p.</i>).....	249	<i>Thomomys talpoides</i>	316
texensis. (<i>Peromyscus</i>).....	218	<i>Thomomys t. perpallidus</i>	321
texensis. (<i>Scalops a.</i>).....	485	<i>Thomomys umbrinus</i>	317
texensis. (<i>Scalopus a.</i>).....	485	<i>thompsoni. (Sorex)</i>	472
texensis. (<i>Sciurus r.</i>).....	124	<i>thomsoni. (Gacella)</i>	78
texensis. (<i>Sigmodon h.</i>).....	245	<i>thomsoni. (Gazella)</i>	78
texensis. (<i>Spermophilus t.</i>).....	167	<i>Thos</i>	407
texensis. (<i>Urocyon c.</i>).....	417	<i>Thous</i>	407
texiana. (<i>Arvicola</i>).....	245	<i>Thous mesomelas</i>	407
texianus. (<i>Lepus</i>).....	379	<i>Thryonomys</i>	358
texianus. (<i>Sciurus</i>).....	124	<i>Thryonomys swinderenianus</i>	358
<i>Thalarcos</i>	420	<i>thurberi. (Peromyscus)</i>	222
<i>Thalassarcos</i>	420	<i>thurberi. (Peromyscus t.)</i> ...	221, 222
<i>Thalassarcus</i>	420	<i>thurberi. (Sitomys a.)</i>	221
thar. (<i>Antilope</i>).....	90	<i>Thylacomys</i>	10
thar. (<i>Nemorhædus</i>).....	90	<i>Thylacomys lagotis</i>	10
<i>Theranthropus</i>	577	<i>Thylamys</i>	3
<i>Theropithecus</i>	566	<i>Thylogale</i>	18
<i>Theropithecus obscurus</i>	566	<i>Thyropteridæ</i>	525
thetidis. (<i>Halmaturus</i>).....	18	<i>thysanodes. (Myotis)</i>	505
thetidis. (<i>Macropus</i>).....	18	<i>thysanodes. (Myotis e.)</i>	505
thetis. (<i>Halmaturus</i>).....	18	<i>tibetanus. (Ursus)</i>	422
thetis. (<i>Macropus</i>).....	18	<i>tigrina. (Felis)</i>	390
thibetanus. (<i>Ursus</i>).....	422, 423	<i>tigrina. (Genetta)</i>	398
<i>Thiosmus</i>	437	<i>tigrina. (Viverra)</i>	398
thomasi. (<i>Peromyscus</i>).....	243	<i>tigris. (Felis)</i>	386
<i>Thomomys</i>	313, 314	<i>Tigris leo</i>	392
<i>Thomomys alpinus</i>	320	<i>Tigris longipilis</i>	387
<i>Thomomys aphrastus</i>	319	<i>Tigris regalis</i>	387
<i>Thomomys aureus</i>	321	<i>Tigris r. alba</i>	387
<i>Thomomys a. perpes</i>	321	<i>Tigris r. hybrida</i>	387
<i>Thomomys bottæ</i>	314	<i>Tigris sondaica</i>	387
<i>Thomomys bulbivorus</i>	313	<i>Tigris striatus</i>	387
<i>Thomomys cabezone</i>	322	<i>timidus. (Lepus)</i>	366, 382
<i>Thomomys clusius fuscus</i>	316	<i>timorensis. (Sus)</i>	32

	PAGE.		PAGE.
timoriensis. (Nyctophilus).....	519	transitionalis. (Lepus f.).....	369
tittheæcheilus. (Pteropus).....	494	transitionalis. (Lepus s.).....	369
tolteca. (Stenoderma).....	539	transvaalensis. (Equus b.).....	102
toltecus. (Hesperomys).....	247	tredecimlineatus. (Citellus).....	166
toltecus. (Sigmodon h.).....	247	Trialacodus.....	358
torquatus. (Cheiromeles).....	521	Trichechidæ.....	29
torquatus. (Ursus).....	423	Trichechus.....	29
torridus. (Hesperomys).....	201	Trichechus divergens.....	459
torridus. (Heterogeomys).....	312	Trichechus manatus.....	29
torridus. (Onychomys).....	201	Trichechus obesus.....	459
torvus. (Tagassu).....	35	Trichechus rosamarus.....	459
torvus. (Tayassu).....	35	Trichechus.....	29
toupai. (Macroxus).....	117	Trichechus dugon.....	30
townsendi. (Citellus).....	173	trichodactylus. (Lagostomus)...	362
townsendi. (Corynorhinus m.)...	517	Trichosurus.....	12
townsendi. (Lepus).....	385	Trichosurus caninus.....	13
townsendi. (Lepus c.).....	385	Trichosurus vulpecula.....	12
townsendi. (Microtus).....	295, 296	Trichosurus v. fuliginosus.....	13
townsendi. (Scapanus).....	481	Trichosurus xanthopus.....	12
townsendi. (Spermophilus r.)...	174	Trichurus.....	12
townsendi. (Tamias).....	144	Trichys.....	361
townsendii. (Arvicola).....	295	Trichys guentheri.....	361
townsendii. (Plecotus).....	517	Trichys lipura.....	361
townsendii. (Scalops).....	481	tricolor. (Lycaon).....	406
townsendii. (Spermophilus).....	173	tricolor. (Pteropus).....	491
townsendii. (Tamias).....	144	tricuspis. (Manis).....	28
Trachypithecus.....	571, 572	tridactyla. (Didelphis).....	16
Tragelaphinæ.....	84	tridactyla. (Myrmecophaga).....	24
Tragelaphus.....	84, 85	tridactylus. (Bradypus).....	22
Tragelaphus decula.....	85	tridactylus. (Potorous).....	16
Tragelaphus gratus.....	87	tridecemlineatus. (Sciurus).....	166
Tragelaphus montanus.....	63	tridecemlineatus. (Spermophilus)	166
Tragelaphus r. fasciatus.....	85	tridentata. (Manis).....	28
Tragelaphus scriptus fasciatus...	85	trifoliatus. (Aquias).....	498
Tragelaphus s. sylvaticus.....	85	trifoliatus. (Rhinolophus).....	498
Tragelaphus spekii.....	86, 87	Triglochinopholis.....	27
Tragelaphus sylvaticus.....	85	Trilatitus blepotis.....	516
tragelaphus. (Musimon).....	96	trimucronatus. (Arvicola).....	306
tragelaphus. (Ovis).....	95	trimucronatus. (Lemmus).....	306
tragelaphus. (Portax).....	84	trinitatis. (Didelphys).....	6
tragocamelus. (Antilope).....	84	trinitatis. (Echimys).....	355
tragocamelus. (Boselaphus).....	84	trinitatis. (Proëchimys).....	355
Tragops.....	75	trinitatis. (Proëchinomys).....	355
Tragops bennettii.....	77	Trinodontomys.....	203
Tragopsis.....	75	trinotatus. (Zapus).....	351
Tragulidæ.....	37	tristis. (Felis).....	389
Tragulina.....	37	trivirgata. (Dactylopsila).....	14
Tragulus.....	37	trivirgata. (Phalangista).....	14
Tragulus indicus.....	37	trivirgatus. (Paradoxurus).....	401
Tragulus meminna.....	37	Troglodytes.....	577
tragus. (Rupicapra).....	90	Troglodytes calvus.....	579

	PAGE.		PAGE.
Troglodytes niger.....	579	undata. (Panthera).....	390
Troglodytes tschego.....	579	unguifer. (Macropus).....	18
troglodytes. (Simia).....	579	Ungulata.....	31
tropicalis. (Conepatus).....	438	unicolor. (Cervus).....	42
Tropicobus.....	573	unicornis. (Rhinoceros).....	104
trowbridgi. (Arvicola).....	292	urichi. (Akodon).....	263
trowbridgii. (Lepus).....	376	Urocyon.....	416
trowbridgii. (Sorex).....	470	Urocyon aquilus.....	408, 419
truei. (Hesperomys).....	237	Urocyon catalinae.....	419
truei. (Lepus).....	368	Urocyon cinereo-argenteus....	416, 417
truii. (Lepus).....	368	Urocyon c. californicus.....	417
truii. (Peromyscus).....	237	Urocyon c. fraterculus.....	418
truncatus. (Chlamyphorus)....	25	Urocyon c. guatemalæ.....	418
truncatus. (Chlamyphorus)....	25	Urocyon c. inyoensis.....	418
tuckeri. (Perameles).....	16	Urocyon c. scotti.....	417
tumida. (Rhogeessa).....	515	Urocyon c. texensis.....	417
tumida. (Rhogoessa).....	515	Urocyon guatemalæ.....	418
Tunisciurus.....	114	Urocryptus.....	519
Tupaia.....	464	Urocyptus bilineatus.....	520
Tupaia ferruginea.....	464	Uroderma.....	537
Tupaia tana.....	464	Uroderma bilobatum.....	537
Tupaiaidæ.....	464	Uroderma validum.....	537
tupaoides. (Rhinosciurus).....	111	Uroleptes.....	23
tuza. (Geomys).....	308	Uromys.....	197
tuza. (Mus).....	308	Uromys bruijni.....	197
Tylonyx.....	306	Urotragus.....	90
Tylopoda.....	36	Urotrichus gibbsii.....	479, 480
typhlus. (Spalax).....	307	Ursidæ.....	419
typicus. (Cheirogaleus).....	548	ursina. (Alouatta).....	554
typicus. (Cryptoprocta).....	398	ursina. (Callotaria).....	457
typicus. (Macromerus).....	541	ursina. (Didelphis).....	10
typicus. (Pedetes).....	354	ursina. (Didelphys).....	9
typicus. (Sciurus v.).....	117	ursina. (Phoca).....	457
typus. (Macroscelides).....	465	ursina. (Simia).....	554
typus. (Paradoxurus).....	399	Ursinæ.....	419
ualabatus. (Halmaturus).....	19	Ursine Anteater.....	23
ualabatus. (Kangurus).....	19	ursinii. (Miniopterus).....	516
ualabatus. (Macropus).....	19	ursinii. (Vespertilio).....	516
ualanus. (Pteropus).....	492	ursinus. (Dasyurus).....	9, 10
ubericolor. (Lepus b.).....	377	ursinus. (Diabolus).....	9
ubericolor. (Lepus f.).....	377	ursinus. (Phascolumys).....	10, 11
umbrinus. (Ascomys).....	317	ursinus. (Sarcophilus).....	9
umbrinus. (Geomys).....	318	ursinus. (Vespertilio).....	509
umbrinus. (Thomomys).....	317	Ursus.....	419, 420
uncia. (Felis).....	387	Ursus altifrontalis.....	422
Uncia irbis.....	387	Ursus americanus.....	422
uncioides. (Felis).....	387	Ursus a. emmonsii.....	422
unctuosa. (Antilope).....	67	Ursus arctos.....	419
unctuosus. (Cobus).....	67, 68	Ursus emmonsii.....	422
undata. (Felis).....	390	Ursus horriæus.....	421
		Ursus horribilis.....	420

	PAGE.		PAGE.
Ursus h. californicus.....	420	varius. (Lemur).....	543
Ursus h. horriæus.....	421	varius. (Leopardus).....	387
Ursus japonicus.....	423	vegetus. (Oryzomys).....	254
Ursus labradorius.....	430	velifer. (Myotis).....	500
Ursus lotor.....	425	velifer. (Vespertilio).....	500
Ursus luscus.....	442	velifer. (Vespertilio a.).....	505
Ursus malayanus.....	422, 423	vellerosus. (Ateles).....	559
Ursus maritimus.....	420	vellerosus. (Microtus).....	296
Ursus meles.....	432	velox. (Canis).....	415
Ursus middendorffi.....	420	velox. (Dysopes).....	522
Ursus novæ-hollandiæ.....	12	velox. (Vulpes).....	415
Ursus ornatus.....	423	velutinus. (Oryzomys).....	252
Ursus taxus.....	430	venatica. (Hyæna).....	406
Ursus thibetanus.....	422, 423	venaticus. (Cynailurus).....	397
Ursus tibetanus.....	422	venator. (Acinonyx).....	396
Ursus torquatus.....	423	venezuelæ. (Rhipidomys).....	243
Urva.....	402	ventralis. (Sorex o.).....	469
vaginalis. (Cervus).....	39	venusta. (Neotoma).....	274
vagrans. (Sorex).....	468	veracrusis. (Lepus).....	373
vagus. (Mus).....	349	verreauxi. (Propithecus).....	542
validum. (Uroderma).....	537	verrucosum. (Phyllostoma).....	530
vallicola. (Microtus c.).....	293	versicolor. (Cebus).....	561
Vampyrella.....	529	Vesperides.....	505
Vampyressa.....	539	Vesperimus.....	203
Vampyriscus.....	539	Vesperimus difficilis.....	236
Vampyrodes.....	539	Vesperimus fraterculus.....	231
Vampyrops.....	539	Vesperimus mearnsii.....	226
Vampyrops lineatus.....	539	Vesperimus nasutus.....	237
Vampyrus.....	528	Vespertilio.....	500, 509
Vampyrus auritus.....	528	Vespertilio affinis.....	504
vampyrus. (Vespertilio).....	490	Vespertilio albescens.....	505
vancouverensis. (Sciurus h.).....	139	Vespertilio a. evotis.....	505
vardoni. (Adenota).....	69	Vespertilio a. velifer.....	505
vardoni. (Antilope).....	69	Vespertilio arquatus.....	509
vardoni. (Cobus).....	69	Vespertilio auduboni.....	506
vardoni. (Eleotragus).....	69	Vespertilio auritus.....	517
vardonii. (Heleotragus).....	69	Vespertilio belangeri.....	515
Varecia varia.....	543	Vespertilio borealis.....	512
varia. (Varecia).....	543	Vespertilio brevimanus.....	517
variabilis. (Sciurus).....	132	Vespertilio californicus.....	502
varians. (Mephitis).....	434	Vespertilio carolii.....	504
varians. (Mephitis m.).....	434	Vespertilio carolinensis.....	509
variegata. (Panthera).....	388	Vespertilio castaneus.....	515
variegata. (Phoca).....	461	Vespertilio cephalotes.....	494
variegatus. (Canis).....	408	Vespertilio cinereus.....	513
variegatus. (Citellus).....	175	Vespertilio concinnus.....	501
variegatus. (Hemicentetes).....	487	Vespertilio cornutus.....	517
variegatus. (Sciurus).....		Vespertilio erythrodactylus.....	508
..... 127, 128, 129, 130, 175		Vespertilio eschscholtzii.....	516
variegatus. (Setiger).....	487	Vespertilio evotis.....	501
		Vespertilio exilis.....	502

	PAGE.		PAGE.
<i>Vespertilio ferrum-equinum</i>	496	<i>Vespertilio tessellatus</i>	512
<i>Vespertilio fuliginosa</i>	516	<i>Vespertilio ursinii</i>	516
<i>Vespertilio fuscus</i>	509	<i>Vespertilio ursinus</i>	509
<i>Vespertilio f. bernardinus</i>	511	<i>Vespertilio vampyrus</i>	490
<i>Vespertilio f. miradorensis</i>	511	<i>Vespertilio velifer</i>	500
<i>Vespertilio f. peninsulæ</i>	511	<i>Vespertilio volans</i>	502
<i>Vespertilio f. propinquus</i>	511	<i>Vespertilio yumanensis</i>	501
<i>Vespertilio gryphus</i>	504	<i>Vespertilionidæ</i>	499
<i>Vespertilio g. septentrionalis</i>	504	<i>Vespertilioninæ</i>	499
<i>Vespertilio hastatus</i>	530	<i>Vesperugo</i>	505, 506, 509
<i>Vespertilio hispidus</i>	499	<i>Vesperugo carolinensis</i>	508
<i>Vespertilio humeralis</i>	514	<i>Vesperugo merriami</i>	506
<i>Vespertilio lasiurus</i>	512	<i>Vesperus</i>	509
<i>Vespertilio lepturus</i>	519	<i>Vesperus propinquus</i>	511
<i>Vespertilio longicrus</i>	504	<i>vestitus</i> . (Cuscus).....	12
<i>Vespertilio lucifugus</i>	504	<i>vicinus</i> . (Sciurus l.).....	125
<i>Vespertilio l. austroriparius</i>	504	<i>vicugna</i> . (Lama).....	37
<i>Vespertilio melanorhinus</i>	503	<i>villosus</i> . (Dasypus).....	26
<i>Vespertilio minuta</i>	512	<i>villosus</i> . (Euphractus).....	26
<i>Vespertilio minutus</i>	512	<i>villosus</i> . (Zaedyus).....	26
<i>Vespertilio monachus</i>	512	<i>vinnulus</i> . (Citellus).....	162
<i>Vespertilio murinus</i>	499, 509	<i>virgata</i> . (Hyæna).....	405
<i>Vespertilio myotis</i>	499	<i>virginiana</i> . (Didelphis).....	8
<i>Vespertilio natalensis</i>	516	<i>virginiana</i> . (Didelphys).....	8
<i>Vespertilio nigricans</i>	501, 503	<i>virginianus</i> . (Canis).....	416, 417
<i>Vespertilio nitidus</i>	502	<i>virginianus</i> . (Cervus).....	46
<i>Vespertilio n. henshawi</i>	503	<i>virginianus</i> . (Scalopus).....	482
<i>Vespertilio noctivagans</i>	505	<i>viscacha</i> . (Lagostomus).....	362
<i>Vespertilio noveboracensis</i>	512	<i>Viscaccia</i>	361, 362
<i>Vespertilio noveboracus</i>	512	<i>Viscacia</i>	362
<i>Vespertilio obscurus</i>	502	<i>Viscacia chilensis</i>	362
<i>Vespertilio oregonensis</i>	502	<i>viscacia</i> . (Callomys).....	362
<i>Vespertilio otus</i>	517	<i>Viscaciidæ</i>	361
<i>Vespertilio pallidus</i>	518	<i>Vison</i>	446
<i>Vespertilio phaiops</i>	509	<i>vison</i> . (Mustela).....	446
<i>Vespertilio pipistrellus</i>	506	<i>vison</i> . (Putorius).....	446
<i>Vespertilio pruinosus</i>	513	<i>vittatus</i> . (Macroxus).....	117
<i>Vespertilio pulverulentus</i>	506	<i>vittatus</i> . (Sciurus).....	117
<i>Vespertilio rebellus</i>	512	<i>vitulina</i> . (Phoca).....	461
<i>Vespertilio rubra</i>	512	<i>Viverra bengalensis</i>	398
<i>Vespertilio rufus</i>	512	<i>Viverra binotata</i>	401
<i>Vespertilio schreibersii</i>	516	<i>Viverra binturong</i>	400
<i>Vespertilio soricinus</i>	531, 532	<i>Viverra boiei</i>	400
<i>Vespertilio spasma</i>	499	<i>Viverra caudivolvula</i>	429
<i>Vespertilio spectrum</i>	528	<i>Viverra cristata</i>	404
<i>Vespertilio speoris</i>	498	<i>Viverra flava</i>	429
<i>Vespertilio sphinx</i>	493	<i>Viverra genetta</i>	398
<i>Vespertilio subflavus</i>	508	<i>Viverra gracilis</i>	399
<i>Vespertilio subulatus</i>	504	<i>Viverra hardwickii</i>	399, 400
<i>Vespertilio temminckii</i>	515	<i>Viverra hermaphrodita</i>	399
<i>Vespertilio tenuidorsalis</i>	502	<i>Viverra hyænoides</i>	404

	PAGE.		PAGE.
Viverra ichneumon.....	401	Vulpes flavescens.....	416
Viverra indica.....	398	Vulpes fulva.....	413
Viverra leveriana.....	398	Vulpes f. argentata.....	413, 414
Viverra linsang.....	399	Vulpes f. macroura.....	414
Viverra maculata.....	9	Vulpes l. innuitus.....	414
Viverra malaccensis.....	398	Vulpes macrotis.....	415
Viverra mephitis.....	432	Vulpes macrourus.....	414
Viverra mungo.....	402	Vulpes necator.....	414
Viverra narica.....	427	Vulpes pennsylvanica.....	413
Viverra nasua.....	427	Vulpes p. argentata.....	413
Viverra nigra.....	399	Vulpes p. macrura.....	414
Viverra pallida.....	398	Vulpes regalis.....	414
Viverra piscator.....	445	Vulpes velox.....	415
Viverra poliocephala.....	443	Vulpes v. hebes.....	416
Viverra prehensilis.....	399	Vulpes vulpes.....	416
Viverra rasse.....	398	vulpes. (Canis).....	413, 416
Viverra senegalensis.....	398	vulpes. (Vulpes).....	416
Viverra tigrina.....	398	vulpina. (Balantia).....	12
Viverricula.....	398	vulpina. (Didelphis).....	12
Viverricula malaccensis.....	398	vulpina. (Mustela).....	443
Viverridæ.....	397	vulpina. (Phalangista).....	12
viverrimus. (Canis).....	406	vulpinus. (Sciurus).....	125, 133
viverrinus. (Didelphis).....	9	wagleri. (Cynocephalus).....	565
volans. (Cynocephalus).....	464	wagneri. (Dipodomys).....	327
volans. (Didelphis).....	13	Wagneria.....	424
volans. (Galeopithecus).....	464	walleri. (Gazella).....	80
volans. (Lemur).....	464	walleri. (Lithocranius).....	80
volans. (Mus).....	186	walleri. (Litocranius).....	80
volans. (Petauroides).....	13	wapiti. (Cervus).....	44
volans. (Petaurus).....	13	wardi. (Cervicapra r.).....	71
volans. (Sciuropterus).....	186	washingtoni. (Lepus a.).....	384
volans. (Sciurus).....	184	washingtoni. (Putorius).....	451
volans. (Vespertilio).....	502	washingtonii. (Lepus).....	384
Voluccella.....	13	waterhousii. (Didelphys).....	4
Voluccella pygmæa.....	15	waterhousii. (Macrotus).....	527
Voluccella sciurea.....	14	waterhousii. (Otopterus).....	527
volucella. (Sciurus).....	186	whiteheadi. (Nannosciurus).....	107
Vombatus.....	10	whiteheadi. (Sciurus).....	107
vombatus. (Phascalomys).....	11	whiteleyi. (Lutronectes).....	454
vulgaris. (Capreolus).....	45	winingus. (Mustela).....	446
vulgaris. (Cricetus).....	198	Wombatus fessor.....	11
vulgaris. (Dama).....	45	woodfordi. (Pteropus).....	491
vulgaris. H(yæna).....	405	wortmani. (Citellus).....	171
vulgaris. (Jacchus).....	553	wortmani. (Spermophilus).....	171
vulgaris. (Lutra).....	454	wortmani. (Tamias).....	171
vulgaris. (Mustela).....	448	Xantharpyia amplexicaudata.....	494
vulgaris. (Sciurus).....	113, 115	xanthogenys. (Mustela).....	452
vulpecula. (Didelphis).....	12	xanthogenys. (Putorius).....	452
vulpecula. (Trichosurus).....	12	xanthopus. (Phalangista).....	12
Vulpes.....	413		
Vulpes arsipus.....	416		

	PAGE.		PAGE.
xanthopus. (Trichosurus).....	12	Zalabis.....	105
xanthotus. (Sciurus).....	121	zambesiensis. (Strepsiceros s.) ...	88
xanti. (Lepus c.).....	381	Zapodinae.....	349
Xenelaphus.....	51, 52	Zapus.....	349, 350
Xenelaphus leucotis.....	52	Zapus alleni.....	352
Xenochirus.....	14	Zapus hudsonius.....	350
Xerospermophilus.....	160, 163	Zapus h. campestris.....	350
Xerus.....	108	Zapus h. hardyi.....	350
Xerus dabagala.....	109	Zapus imperator.....	351
Xerus flavus.....	109	Zapus insignis.....	352, 353
Xerus fuscus.....	109	Zapus princeps.....	351
Xerus rutilus.....	109	Zapus p. minor.....	351
Xylomys.....	344	Zapus trinotatus.....	351
		Zapus t. alleni.....	352
yakutatensis. (Microtus).....	295	zebra. (Asinus).....	103
yarkandensis. (Gacella s.).....	76	zebra. (Equus).....	103
yarkandensis. (Gazella s.).....	76	zebra. (Hippotigris).....	103
Yerboa gigantea.....	18, 19	zebra. (Paradoxurus).....	400
Yerboa potoru.....	16	zebre. (Hemigale).....	400
yucatanensis. (Sciurus).....	131	zibellina. (Mustela).....	443
yucatanensis. (Sciurus c.).....	131	zibethicus. (Castor).....	303
yumanensis. (Myotis).....	501	zibethicus. (Fiber).....	303
yumanensis. (Vespertilio).....	501	Zygodontomys.....	254
		Zygodontomys brevicauda.....	225
Zaedyus.....	25	Zygodontomys brevicaudus.....	254
Zaedyus ciliatus.....	25	Zygodontomys cherrii.....	254
Zaedyus villosus.....	26	Zygodontomys chrysomelas.....	255

INDEX OF COMMON NAMES.

	PAGE.		PAGE.
Aard-Wolf	404	Angola Colobus	575
Abert's Squirrel.....	126	Angolan Pallah.....	72
Abyssinian Chacma	566	Anomalous Shrews.....	473
Abyssinian Duiker.....	62	Anteater, Great.....	24
Abyssinian Oribi	64	Anteater, Little or Two-toed	23
Abyssinian Wolf.....	411	Anteater, Long-tailed.....	24
Acadian Vole.....	289	Anteater, Three-toed	24
Active Marten.....	444	Anteaters.....	22
Agouta.....	486	Antelope, Indian.....	84
Agouti, Coiba.....	363	Antelope, Prong-horn.....	53
Agouti, Mexican.....	363	Antelope, Roan.....	82
Agouti, Spotted.....	363	Antelope, Sable.....	83
Agouti, Yellow-rumped	364	Anthony's Mouse	205
Agoutis.....	362	Aoudad.....	96
Akeley's Field Mouse.....	224	<i>Apache</i>	393
Alaska Brown Bear.....	420	Apache Pocket Mouse.....	332
Alaskan Moose.....	42	Apache Squirrel	123
<i>Alikut</i>	63	Aquatic Rice Rat.....	250
Allen's Jack Rabbit.....	379	Arabian Ibex.....	92
Allen's Jumping Mouse.....	352	Araquato, The.....	554
Allen's Pocket Mouse.....	343	Arctic Field Mouse.....	220
Allen's Spiny Mouse.....	346	Arctic Weasel	450
Allen's Wood Rat.....	282	Arctic Wolf.....	413
Allied Brown Bat.....	512	<i>Ardilla</i>	128
Allied Chipmunk.....	148, 155	Argali.....	98
Allied Field Mouse.....	240	Arizona Chickaree.....	143
Allied Kangaroo Rat.....	324	Arizona Cotton Rat.....	246
Allied Sheath-tailed Bat.....	521	Arizona Cotton-tail.....	375
Allied Wood Rat	266	Arizona Gray Squirrel.....	123
Almiqui.....	486	Arizona Harvest Mouse.....	260
Alpaca.....	37	Arizona Prairie-dog.....	181
Alpine Chipmunk.....	157	Arizona Skunk.....	434
Alpine Ibex.....	92	Arizona Weasel.....	452
Alpine Pocket Gopher.....	320	Arizona White-footed Deer Mouse	213
Alston's Mouse.....	263	Armadillo, Nine-banded.....	27
Alta Mira Cotton-tail.....	370	Armed Spermophile.....	173
<i>Akwahwong</i>	56	Armeria Peccary.....	35
American Badger.....	430	Arui.....	96
American Bison.....	100	Ash-colored Chipmunk.....	153
American Black Bear.....	422	Ash-colored Cotton-tail.....	377
American Hare.....	383	Ash-colored Mountain Goat.....	91
American Marten.....	443	Ashy Opossum.....	4
Anastasia Island Mouse	217, 207	Ashy Spermophile.....	169
Ancient Pocket Gophers.....	311	Asiatic Wild Ass.....	104

	PAGE.		PAGE.
Ass, Asiatic Wild.....	104	Bat, Big-tailed Fruit.....	493
Ass, Somali Wild.....	104	Bat, Black Fruit.....	492
Atkinson's Mongoose.....	403	Bat, Black-faced.....	496
Atlantic Walrus.....	459	Bat, Blackish Mastiff.....	522
Attadillo.....	28	Bat, Blackish Sheath-tailed.....	519
Attractive Harvest Mouse.....	262	Bat, Bocourt's Large-eared.....	528
Attwater's Field Mouse.....	231	Bat, Brown.....	509
Attwater's Pocket Gopher.....	310	Bat, Buller's Large-eared.....	528
Attwater's Swamp Hare.....	367	Bat, California Red.....	513
Attwater's Wood Rat.....	270	Bat, Caroline Islands Fruit.....	492
Aubry's Genetta.....	399	Bat, Cave.....	496
<i>Aukis</i>	361	Bat, Cavern Nose-leaf.....	535
Australian Fruit Bat.....	491	Bat, Cinereous.....	539
Autocrat Timber Wolf.....	413	Bat, Cinnamon.....	527
Avahis.....	543	Bat, Common Eastern Yellow.....	515
Aye-aye.....	552	Bat, Crowned.....	498
Azara Dog.....	408	Bat, Cuban Nose-leaf.....	534
Aztec Mouse.....	241	Bat, Cyclops.....	498
		Bat, Dark Yuma.....	502
Bachman's Cotton-tail.....	376	Bat, Davy's.....	526
Bactrian or Two-humped Camel..	36	Bat, Dominican Free-tailed.....	524
Badger, American.....	430	Bat, Duke of York Island Fruit..	491
Badger, Berlandier's.....	431	Bat, Dusky Mastiff.....	522
Badger, California.....	431	Bat, Dwarf Nose-leaf.....	535
Badger, European.....	432	Bat, Extravagant.....	523
Badger, Marche's.....	432	Bat, Flat-forehead Bahama.....	534
Badgers.....	430	Bat, Fort Yuma.....	502
Bailey's Chickaree.....	138	Bat, Fringed.....	505
Bailey's Cotton-tail.....	374	Bat, Gambia Fruit.....	490
Bailey's Lynx.....	395	Bat, Golden-naped Fruit.....	492
Bailey's Wood Rat.....	269	Bat, Graham Island.....	503
Baird's Hare.....	384	Bat, Great Vampire.....	499
Baird's Pocket Mouse.....	332	Bat, Great-eared.....	529
Baird's Tapir.....	102	Bat, Grizzled Brown.....	501
<i>Balango</i>	67	Bat, Harpy.....	495
Banded-back Squirrel.....	131	Bat, Harpy Fruit.....	490
Bandicoot, Rabbit.....	10	Bat, Hispid Vampire.....	499
Bandicoots.....	10	Bat, Hoary.....	514
Bangs's Cotton-tail.....	369	Bat, Intermediate.....	527
Bangs's Pocket Mouse.....	333	Bat, Jamaica.....	536
Barking Coyote.....	409	Bat, La Grulla Brown.....	502
Barking Deer.....	39	Bat, Larged-eared Vampire.....	529
Barred Lynx.....	395	Bat, Large-winged.....	500
Barren Ground Caribou.....	41	Bat, Las Penas.....	526
Barrow's Sperophile.....	172	Bat, Little.....	512
Bat, Allied Brown.....	512	Bat, Little Brown.....	504
Bat, Allied Sheath-tailed.....	521	Bat, Little California.....	503
Bat, Australian Big-eared.....	519	Bat, Long-eared.....	518
Bat, Australian Fruit.....	491	Bat, Long-nosed.....	532
Bat, Bicolored.....	498	Bat, Long-winged.....	516
Bat, Big-eared Pale.....	518	Bat, Lower California Brown.....	511

	PAGE.
Bat, Lucas's.....	495
Bat, Madagascar Free-tailed.....	525
Bat, Maned Fruit.....	492
Bat, Maria Madre Island.....	532
Bat, Masked.....	526
Bat, Mauritius Fruit.....	491
Bat, Mexican Free-tailed.....	524
Bat, Mexican Vampire.....	529
Bat, Miller's.....	500
Bat, Milne-Edwards's Fruit.....	490
Bat, Mirador Brown.....	511
Bat, Mourning Nose-leaf.....	498
Bat, Narrow-skull.....	532
Bat, Night-wandering.....	506
Bat, Pacific Big-eared.....	518
Bat, Pale.....	503
Bat, Pallas's.....	495
Bat, Palm Springs Free-tailed.....	523
Bat, Panama.....	514
Bat, Pearson's Nose-leaf.....	497
Bat, Peron's.....	494
Bat, Poey's.....	534
Bat, Pollen's Fruit.....	493
Bat, Pouched.....	520
Bat, Pretty striped.....	539
Bat, Prominent-eared.....	501
Bat, Rafinesque's.....	515
Bat, Red.....	512
Bat, Reddish Brown Short-tailed.....	531
Bat, Restless.....	516
Bat, Rufous Vampire.....	540
Bat, San Bernardino Brown.....	511
Bat, San Domingo.....	534
Bat, Saussure's Large-eared.....	528
Bat, Scantly Haired.....	531
Bat, Schlegel's Fruit.....	492
Bat, Short-hand.....	525
Bat, Shrew-like.....	533
Bat, Small-winged.....	504
Bat, Spear-nosed.....	530
Bat, Sphinx.....	494
Bat, Sundevall's Long-winged.....	517
Bat, Swift.....	508
Bat, Townsend's Big-eared.....	517
Bat, Trefoil Nose-leaf.....	498
Bat, Tres Marias Islands.....	533
Bat, Tricolor Fruit.....	491
Bat, Trinidad.....	537
Bat, True's.....	505
Bat, Two-lobed.....	537
Bat, Valid.....	537

	PAGE.
Bat, Warty-lipped.....	530
Bat, Waterhouse's Large-eared....	527
Bat, Western.....	507
Bat, White-striped.....	520, 539
Bat, Woodford's Fruit.....	491
Bat, Yellowish-brown.....	508
<i>Batokoton</i>	541
Bats.....	490
Bats, Big-eared.....	517
Bats, Common.....	499
Bats, Fruit.....	490
Bats, Funnel-eared.....	525
Bats, Nose-leaf.....	496
Bats, Vampire.....	525
Batty's White-tailed Deer.....	48
Bay Duiker.....	61
Bear, Alaska Brown.....	420
Bear, American Black.....	422
Bear, Emmons's Glacier.....	422
Bear, Grizzly.....	421
Bear, Japanese Black.....	423
Bear, Malay.....	423
Bear, Mexican Grizzly.....	422
Bear, Middendorff's Brown.....	420
Bear, Northwestern Black.....	422
Bear, Polar.....	420
Bear, Tibetan Black.....	423
Bear-cat.....	400
Bears.....	419
Bears, Black.....	422
Bears, Brown.....	420
Bears, Grizzly.....	420
Bears, Sun.....	423
Beautiful Mole Mouse.....	202
Beautiful Pocket Mouse.....	333
Beautiful Wood Rat.....	276
Beautiful-eared Jack Rabbit.....	379
Beaver.....	191
Beaver, Canada.....	190
Beaver, Pacific Coast.....	190
Beaver Rat.....	356
Beaver, Sonoran.....	190
Beavers.....	190
Beech Marten.....	445
Beechey's Sperrophile.....	176
Beecroft's Flying Squirrel.....	107
Beira.....	81
Beisa, The.....	84
Belding's Sperrophile.....	174
Bendire's Shrew.....	474
Bene, The.....	32

	PAGE.		PAGE.
Bengal Monkey.....	567	Boar, Wild.....	31
<i>Beni Israel</i>	65	Bocourt's Large-eared Bat.....	528
Benito River Squirrel.....	110	Bogava Spiny Rat.....	356
<i>Berendo</i>	54	Bohor.....	71
Berlandier's Badger.....	431	Bolivian Ctenomys.....	354
Betsileo Rat.....	199	Bonda Cotton-tail.....	374
Bharal.....	95	Bonda Squirrel.....	132
Bicolored Bat.....	498	Bongo, Isaac's.....	86
Big-eared Bats.....	517	Bontebok.....	58
Big-eared Harvest Mouse.....	257	Boqueron Cotton Rat.....	248
Big-eared Kit Fox.....	415	Boquete Field Mouse.....	243
Big-eared Pale Bat.....	518	Boreal Flying Squirrel.....	186
Big-horn.....	96	Bornean Prevost Squirrel.....	119
Big-tailed Fruit Bat.....	493	Bornean Red Cat.....	394
Binturong.....	400	Boruca Cotton Rat.....	247
Bison, American.....	100	Botta's Pocket Gopher.....	315
Black Bears.....	422	Boyle's Field Mouse.....	227
Black Buck.....	71	Brazza's Monkey.....	569
Black Fox.....	414	Brewer's Hairy-tailed Mole.....	485
Black Fruit Bat.....	492	Bridled Wallaby.....	18
Black Indris.....	541	Bridled Weasel.....	453
Black Mountain Sheep.....	96	Brindled Gnu.....	59
Black Musk-ox.....	99	British Columbia Bushy-tailed	
Black Rat.....	194	Wood Rat.....	279
Black Rice-digger.....	489	Broad-banded Cotton-tail.....	372
Black Squirrel.....	120	Broad-footed Mouse.....	243
Black Yarkee.....	556	Broad-headed Pocket Gopher.....	315
Black-backed Jackal.....	407	Broad-headed Spotted Skunk.....	440
Black-backed Squirrel.....	122	Broad-nose Rice Rat.....	252
Black-eared Field Mouse.....	240	Broad-nosed Skunk.....	435
Black-eared Jack Rabbit.....	380	Brocket, Sartori's.....	52
Black-eared Lemur.....	548	Brocket, Wood.....	52
Black-eared Marmoset.....	553	Brockets.....	50
Black-eared Rice Rat.....	252	Brooke's Squirrel.....	117
Black-faced Bat.....	496	Brown Bat.....	509
Black-faced Pocket Gopher.....	317	Brown Bears.....	420
Black-footed Flying Squirrel.....	186	Brown Rat.....	195
Black-footed Gray Squirrel.....	135	Bruh, The.....	567
Black-footed Mink.....	448	Bruijn's Rat.....	197
Black-headed Lemur.....	544	Buckley's Spermophile.....	179
Black-headed Tenrec.....	487	Buffalo, Mindoro.....	100
Blackish Field Mouse.....	234	Buff-bellied Chipmunk.....	154
Blackish Mastiff Bat.....	522	Buff-cheeked Chipmunk.....	145
Blackish Pocket Gopher.....	318	Buff-colored Pocket Mouse.....	336
Blackish Sheath-tailed Bat.....	519	Buff-colored Wolverine.....	442
Black-rumped Duiker.....	61	Buller's Large-eared Bat.....	528
Black-striped Squirrel.....	117	Buller's Pocket Gopher.....	312
Black-tailed Wallaby.....	19	Bunguran Island Squirrel.....	113
Blessbok.....	58	Burrowing Pocket Gopher.....	312
Blue Duiker.....	62	Bushbuck, Cape.....	85
Blue Wild Sheep.....	95	Bushbuck, Cumming's Striped....	85

	PAGE.		PAGE.
Bushy-tailed Meerkat.....	404	Caribou, Newfoundland.....	41
Bushy-tailed Spermophile.....	176	Caribou, Stone's.....	41
Bushy-tailed Wood Rats.....	277	Carnivores.....	386
Cabazon Pocket Gopher.....	322	Carolina Gray Squirrel.....	132
<i>Cacomistl</i>	424	Carolina Islands Fruit Bat.....	492
Calamianes Deer.....	43	Carolina Red-backed Vole.....	285
California Badger.....	431	Carolina Shrew.....	476
California Chickaree.....	141	Cascade Mountains Chickaree.....	141
California Gray Fox.....	417	Cascade Water Vole.....	303
California Gray Squirrel.....	135	Cat, Bornean Red.....	394
California Jack Rabbit.....	381	Cat, Chinese.....	389
California Kangaroo Rat.....	325	Cat, Little Red-spotted.....	391
California Lynx.....	396	<i>Cat Squirrel</i>	424
California Meadow Vole.....	292	Cat, Tibetan.....	390
California Mole.....	482	Cat, Wild.....	391, 394
California Mouse.....	206	Catalina Island Mouse.....	225
California Mule Deer.....	50	Cat-bear, Red.....	423
California Pocket Mouse.....	343	Cats.....	386
California Red Bat.....	513	<i>Cauzel</i>	390
California Shrew.....	471	Cave Bat.....	496
California Skunk.....	434	Cavendish's Dik-dik.....	67
Callitriche, Le.....	568	Cavern Nose-leaf Bat.....	535
Camel, Bactrian or Two-humped.....	36	Cavies.....	364
Camels.....	36	Cavy, Erxleben's.....	364
Cameron Lake Wood Rat.....	271	Cavy, Restless.....	364
<i>Campo, Perrito del</i>	181	Celebes Squirrel.....	118
Canada Beaver.....	190	Chacma, Abyssinian.....	566
Canada Lynx.....	394	Chacma, The.....	566
Canada Otter.....	454	Chamois.....	90
Canada Skunk.....	432	Changeable Hares.....	382
Canadian Field Mouse.....	217	Chanler's Reedbuck.....	71
Canadian Tree Porcupine.....	359	Chapman's Cotton-tail.....	370
Canadian Woodchuck.....	183	Chapman's Kangaroo Rat.....	330
Cane Rat.....	358	Chapman's Mouse.....	207
Cantankerous Meadow Vole.....	296	Chapman's Opossum.....	5
Cape Bushbuck.....	85	Chapman's Rice Rat.....	251
Cape Coney.....	106	Chapman's Squirrel.....	121
Cape Hartebeest.....	56	Charming Chipmunk.....	152
Cape Mole Rat.....	348	Charming Spermophile.....	162
Cape of Good Hope Mole Rat.....	348	Cheating Spotted Skunk.....	440
Captious Harvest Mouse.....	260	Cheetah.....	397
Capuchin.....	561	Cherrie's Pocket Gopher.....	313
Capuchin, Pale.....	561	Cherrie's Rice Rat.....	254
Capuchin, White-throated.....	562	Chestnut-bellied Shrew.....	469
Capybara Water-hog.....	365	Chestnut-bellied Squirrel.....	116
<i>Carablanca</i>	35	Chestnut-brown Weasel.....	452
<i>Carablanca, Mono</i>	562	Chestnut-faced Pocket Gopher.....	311
Caribou.....	40	Chevrotain, Indian.....	37
Caribou, Barren Ground.....	41	Chevrotains.....	37
Caribou, Mountain.....	40	Chickaree, Arizona.....	143
		Chickaree, Bailey's.....	138

	PAGE.		PAGE.
Chickaree, California.....	141	Chipmunk, Related.....	150, 156
Chickaree, Cascade Mountains....	141	Chipmunk, Showy.....	149
Chickaree, Douglas's.....	140	Chipmunk, Striped.....	158
Chickaree, Eastern.....	137	Chipmunk, Townsend's.....	144
Chickaree, Fremont's.....	142	Chipmunks.....	107, 143
Chickaree, Graham Mountains....	143	Chiriqui Kinkajou.....	429
Chickaree, Hudson Bay.....	136	Chiru, The.....	74
Chickaree, Mearns's.....	142	Cinereous Bat.....	538
Chickaree, Minnesota.....	138	Cinnamon Bat.....	527
Chickaree, Noisy.....	137	Cinnamon Bushy-tailed Wood Rat	281
Chickaree, Richardson's.....	139	Cinnamon-hued Spermophile.....	162
Chickaree, Scolding.....	139	Civets.....	397
Chickaree, Soft-furred.....	140	Coast Chipmunk.....	146
Chickaree, South Dakota.....	138	Coast Cotton Rat.....	245
Chickaree, Vancouver Island.....	139	Coast Meadow Vole.....	294, 297
Chief Hares.....	365	Coast Mole.....	482
Chief Pika.....	365	Coati.....	427
Chief Squirrel.....	111	Coatis.....	423
Chimpanzee.....	579	Coiba Agouti.....	364
Chimpanzee, Congo.....	579	Coiba Island Howler.....	556
Chimpanzees.....	577	Coke's Hartebeest.....	55
Chinese Cat.....	389	Colima Mountain Squirrel.....	129
Chinese Muntjac.....	39	Colima or Dark Meadow Vole....	299
Chinese Water Deer.....	39	Collie's Squirrel.....	129
Chingkau.....	572	Colobus, Angola.....	575
Chipmunk, Allied.....	148, 155	Colombian Grison.....	443
Chipmunk, Alpine.....	157	Colombian Wild Dog.....	408
Chipmunk, Ash-colored.....	153	Colorado Bushy-tailed Wood Rat.	280
Chipmunk, Buff-bellied.....	154	Colorado Chipmunk.....	153
Chipmunk, Buff-cheeked.....	145	Columbian Black-tailed Deer.....	49
Chipmunk, Charming.....	152	Columbian Mountain Goat.....	95
Chipmunk, Coast.....	146	Columbian Spermophile.....	172
Chipmunk, Colorado.....	153	Common Bats.....	499
Chipmunk, Four-banded.....	148	Common Cotton-tail.....	368
Chipmunk, Gila.....	143	Common Duiker.....	62
Chipmunk, Gray.....	148	Common Eastern Yellow Bat.....	515
Chipmunk, Gray Striped.....	159	Common Echidna.....	2
Chipmunk, Happy.....	154	Common Flying Squirrel.....	187
Chipmunk, Hinds's.....	145	Common Fox.....	416
Chipmunk, Hopi.....	156	Common Indian Mongoose.....	403
Chipmunk, Inyo Mountains.....	150	Common Mink.....	447
Chipmunk, Least.....	156	Common Mole.....	483
Chipmunk, Lower California.....	147	Common Moles.....	482
Chipmunk, Lyster's Striped.....	158	Common Otter.....	454
Chipmunk, Merriam's.....	146	Common Phalanger.....	12
Chipmunk, Neglected.....	155	Common Raccoon.....	426
Chipmunk, Northern.....	155	Common Raccoon-fox.....	424
Chipmunk, Northwest.....	153	Common Rat Kangaroo.....	16
Chipmunk, Painted.....	157	Common Shrews.....	466
Chipmunk, Panamint Mountains.,	152	Common Waterbuck.....	67
Chipmunk, Price's.....	145	Common Weasel.....	448

	PAGE.		PAGE.
<i>Conejo</i>	367	Crawshay's Zebra.....	103
Coney, Cape.....	106	Creeping Meadow Vole.....	302
Coney, Somali.....	106	Crowned Bat.....	498
Congan Sitatunga.....	87	Crowned Duiker.....	61
Congo Chimpanzee.....	579	Crowned Propitheeue.....	542
Cooper's Lemming Vole.....	305	Ctenomys, Bolivian.....	354
Copper-colored Monkey.....	558	Cuban Nose-leaf Bat.....	534
Coquerel's Propitheeue.....	542	Cumming's Striped Bushbuck.....	85
Costa Rica Harvest Mouse.....	261	Cunning Jumping Rat.....	349
Cotton Rats.....	244	Cuscus, Gray.....	12
Cotton Tree Mouse.....	216	Cyclops Bat.....	498
Cotton-tail, Alta Mira.....	370		
Cotton-tail, Arizona.....	375	Dall's Mountain Sheep.....	98
Cotton-tail, Ash-colored.....	377	Damaram Dik-dik.....	66
Cotton-tail, Bachman's.....	376	Dark Gelada.....	566
Cotton-tail, Bailey's.....	374	Dark Sewellel.....	189
Cotton-tail, Bangs's.....	369	Dark Yuma Bat.....	502
Cotton-tail, Bonda.....	374	Dark-colored Gray Fox.....	419
Cotton-tail, Broad-banded.....	372	Dark-hued Mink.....	447
Cotton-tail, Chapman's.....	370	Das Amerikanische Kameel.....	36
Cotton-tail, Common.....	368	Dasyure, Spotted-tailed.....	10
Cotton-tail, Florida.....	368	Dasyures.....	9
Cotton-tail, Granger's.....	374	Davy's Bat.....	526
Cotton-tail, Grayson's.....	376	Dawson's Red-backed Vole.....	283
Cotton-tail, Greater Desert.....	375	Death Valley Kangaroo Rat.....	325
Cotton-tail, Holzner's.....	371	Death Valley Sperrophile.....	164
Cotton-tail, Lesser Desert.....	376	Death Valley Wood Rat.....	271
Cotton-tail, Lively.....	370	Deceitful Rice Rat.....	251
Cotton-tail, Lower California.....	378	Deceitful Wood Rat.....	272
Cotton-tail, Mearns's.....	369	Decorated Weasel.....	452
Cotton-tail, Michoacan.....	371	Deer.....	38
Cotton-tail, Mixed.....	373	Deer, Barking.....	39
Cotton-tail, Nuttall's.....	374	Deer, Batty's White-tailed.....	48
Cotton-tail, Pine Wood.....	375	Deer, Calamianes.....	43
Cotton-tail, Plains.....	373	Deer, California Mule.....	50
Cotton-tail, Puebla.....	371	Deer, Chinese Water.....	39
Cotton-tail, Rich-colored.....	377	Deer, Columbian Black-tailed.....	49
Cotton-tail, Russet-footed.....	372	Deer, Coues's White-tailed.....	47
Cotton-tail, San Diego.....	372	Deer, Fallow.....	45
Cotton-tail, Tehuantepec.....	370	Deer, Mule.....	49
Cotton-tail, Vera Cruz.....	373	Deer, Pampas.....	50
Coues's White-tailed Deer.....	47	Deer, Rothschild's White-tailed.....	48
Cowan's Microgale.....	488	Deer, Sitka Black-tailed.....	49
Coyote, Barking.....	409	Deer, Steere's Pigmy.....	43
Coyote, Mearns's.....	410	Deer, Texan White-tailed.....	47
Coyote, Nebraska.....	409	Deer, Virginian White-tailed.....	46
Coyote, Noland's Ranch.....	410	Demidoff's Galago.....	549
Coyote, Ochraceous-footed.....	411	Deppe's Squirrel.....	114
Coyote, Robber.....	409	Desert Jack Rabbit.....	380
Coyote, Thievish.....	410	Desert Kangaroo Rat.....	326
Crab-eating Dog.....	408	Desert Mouse.....	204

	PAGE.		PAGE.
Desert Pocket Mouse.....	338	Duiker, Blue.....	62
Desert White-footed Mouse.....	210	Duiker, Common.....	62
Desman, The.....	479	Duiker, Crowned.....	61
Devil, Tasmanian.....	9	Duiker, Sundevall's Black-rumped	61
Devilish Mink.....	447	Duikers.....	60
Diadem Hedgehog.....	466	Duke of York Island Fruit Bat...	491
Dibatag.....	80	Durango Squirrel.....	125
Dickinson's Harvest Mouse.....	256	Dusky Flying Squirrel.....	185
Digger Pocket Gopher.....	314	Dusky Gray Squirrel.....	134
Dik-dik, Cavendish's.....	67	Dusky Mastiff Bat.....	522
Dik-dik, Damaran.....	66	Dusky Musk Rat.....	305
Dik-dik, Günther's.....	67	Dusky Red-backed Vole.....	285
Dik-dik, Kirk's.....	66	Dusky Shrew.....	469
Dik-dik, Phillips's.....	66	Dusky-footed Wood Rat.....	264
Dik-dik, Salt's.....	65	Dutcher's Meadow Vole.....	291
Dik-dik, Swayne's.....	65	Dwarf Meadow Vole.....	291
Diligent Harvest Mouse.....	256	Dwarf Nose-leaf Bat.....	535
Dissimilar Wood Rat.....	266	Dyche's Harvest Mouse	256
Distinct Pocket Gophers.....	312		
Dobson's Microgale.....	488	East Caucasian Tur	92
<i>Dofar</i>	33	East Indies Marten.	445
Dog, Azara.....	408	Eastern Chickaree.....	137
Dog, Colombian Wild.....	408	Eastern Elk.....	44
Dog, Crab-eating.....	408	Eastern Fox Squirrel.....	125
Dog, Hyæna.....	406	Eastern Puma.....	393
Dog, Raccoon-like.....	406	Eastern Skunk.....	433
Dog, Wild.....	406	Eastern Swamp Hare.....	367
Dogs.....	405, 407	Echidna, Common.....	2
Domestic Goat.....	92	Echidna, Hairy.....	2
Dominican Free-tailed Bat.....	524	Echidnas.....	2
Dorcas Gazelle.....	76	Edentates.....	21
Dorcopsis, Gray.....	17	El General Rice Rat.....	254
Dormice.....	191	Eland, Livingstone's.....	90
Dormouse, Huet's.....	192	Elegant Spermophile.....	174
Dormouse, Linnæus's.....	192	Elephant, Indian.....	106
Dormouse, Oak.....	192	Elephant Seal.....	461
Doubtful Kangaroo Rat.....	323	Elephant Shrew.....	465
Douglas's Chickaree.....	140	Elephants.....	106
Douglas's Spermophile.....	179	Elephants, Sea.....	459
Drill, The.....	465	Elk, Eastern.....	44
Dromedary.....	36	Emmons's Glacier Bear.....	422
Drummond's Bushy-tailed Wood		Erxleben's Cavy.....	364
Rat.....	278	Erxleben's Monkey.....	570
Drummond's Meadow Vole.....	290	Eten Opossum.....	7
Duck-bill	1	European Badger.....	432
Duck-billed Platypus.....	2	European Hare.....	382
Dugong.....	30	European Hedgehog.....	466
Dugongs.....	30	European Lemming.....	306
Duiker, Abyssinian.....	62	European Mole.....	480
Duiker, Bay.....	61	European Mufion.....	98
Duiker, Black-rumped.....	61	European Porcupine.....	361

	PAGE.		PAGE.
European Rabbit.....	378	Fox, California Gray.....	417
European Squirrel.....	115	Fox, Common.....	416
Everett's Squirrel.....	111	Fox, Dark Colored Gray.....	419
Extravagant Bat.....	523	Fox, Gray.....	417
Eyra, Tamaulipas.....	393	Fox, Guatemalan Gray.....	418
		Fox, Inyo Mountains Gray.....	418
Fallow Deer.....	45	Fox, Large-eared.....	407
Farthest North Marten.....	444	Fox, Little Gray.....	418
Fat Sand Rat.....	193	Fox, Long-tailed.....	414
Feeble Weasel.....	449	Fox, Red.....	413
Fernando Po Squirrel.....	110	Fox, Royal.....	414
<i>Fiego</i>	64	Fox, Santa Catalina Island Gray..	419
Field Mice.....	202	Fox, Scott's Gray.....	417
Field Spotted Skunk.....	441	Fox, Silver.....	414
Field Wood Rat.....	275	Fox, Sluggish.....	416
Fierce Peccary.....	35	Fox Squirrel.....	124
Finlayson's Squirrel.....	120	Fox, Summit Arctic.....	414
Fire-bellied Squirrel.....	128	Fox, Swift.....	416
Fisher, Pacific.....	445	Fox, Swift-footed Kit.....	416
Fisher, Pennant's.....	445	Fox, Texas Gray.....	417
Fishers.....	443	Foxes.....	405
Fisher's Spermophile.....	177	Foxes, Gray.....	416
Five-toed Kangaroo Rats.....	327	Foxes, Red.....	413
Flat-forehead Bahama Bat.....	534	Franklin's Spermophile.....	168
Florida Cotton-tail.....	368	Fremont's Chickaree.....	142
Florida Field Mouse.....	216, 235	Fringed Bat.....	505
Florida Flying Squirrel.....	188	Frisky Mouse.....	225
Florida Lynx.....	396	Fruit Bats.....	490
Florida Mole.....	484	Fulvous Field Mouse.....	214
Florida Pocket Gopher.....	308	Fulvous Pocket Gopher.....	317
Florida Shrew.....	477	Fulvous Rice Rat.....	253
Florida Skunk.....	433	Funnel-eared Bats.....	525
Florida Swamp Hare.....	367	Fur Seal.....	457
Florida Water Vole.....	303	Fuscou Bushy-tailed Wood Rat..	280
Florida Weasel.....	451		
Florida Wood Rat.....	269	Gahlah.....	28
Flying Lemur.....	464	Galago.....	549
Flying Lemurs.....	464	Galago, Demidoff's.....	549
Flying Squirrels.....	184	Gale's Red-backed Vole.....	284
Forest Hares.....	368	Gambel's Mouse.....	218
Forest Vole.....	290	Gambia Fruit Bat.....	490
Forked-claw Lemmings.....	306	Gapper's Red-backed Vole.....	283
Forsyth-Major's Microgale.....	488	Gaumer's Spiny Rat.....	345
Fort Yuma Bat.....	502	Gaur, The.....	100
Four-banded Chipmunk.....	148	Gazelle, Dorcas.....	76
Four-toed Kangaroo Rats.....	322	Gazelle, Grant's.....	78
Four-toed Rice-digger.....	489	Gazelle, Indian.....	77
Four-toed Viscacha.....	362	Gazelle, Pelzeln's.....	77
Foussa, The.....	398	Gazelle, Soemmerring's.....	78
Fox, Big-eared Kit.....	415	Gazelle, Speke's.....	77
Fox, Black.....	414	Gazelle, Thomson's.....	78

	PAGE.		PAGE.
Gazelle, Tibetan.....	76	Gopher, Las Vigas Pocket.....	311
Gazelle, Turkestan.....	76	Gopher, Lone Pine Pocket.....	321
Gelada, Dark.....	566	Gopher, Mobile Pocket.....	309
Gemsbok.....	83	Gopher, Mountain Pocket.....	316
Genet, Senegal.....	398	Gopher, Pale Pocket.....	310, 321
Genet, Tigrine.....	398	Gopher, Perote Pocket.....	311
Genetta, Aubry's.....	399	Gopher, Pine Barrens Pocket.....	308
Gerenuk.....	81	Gopher, Richardson's Pocket.....	316
Giant Weasel.....	453	Gopher, Richardson's Southern Pocket.....	318
Gibbons.....	575	Gopher, San Pedro Martir Pocket ..	319
Gibbs's Shrew Mole.....	480	Gopher, Shaw's Pocket.....	309
Gila Chipmunk.....	143	Gopher, Short-headed Pocket.....	310
Giraffe.....	52	Gopher, Swarthy Pocket.....	316
Gnu, Brindled.....	59	Gopher, Texas Pocket.....	310
Gnu, White-bearded.....	60	Gopher, Tropical Pocket.....	312
Gnu, White-tailed.....	60	Gopher, Troublesome Pocket.....	319
Goat, Ash-colored Mountain.....	91	Gopher, Wandering Pocket.....	320
Goat, Columbian Mountain.....	95	Gopher, White-toothed Pocket....	314
Goat, Domestic.....	92	Gopher, Woolly Pocket.....	313
Goat, Gray Mountain.....	91	Gopher, Working Pocket.....	314
Goat, Kennedy's Mountain.....	95	Gophers, Ancient Pocket.....	311
Goat, Milne-Edwards's Mountain ..	91	Gophers, Distinct Pocket.....	312
Goat, Rocky Mountain.....	94	Gophers, Large Pocket.....	313
<i>Gol-Ass</i>	66	Gophers, Pocket.....	308, 313
Golden Breasted Mouse.....	229	Gophers, Powerful Pocket.....	310
Golden Pocket Gopher.....	321	Gophers, Straight-headed Pocket. 312	
Golden-bellied Squirrel.....	128	Goral.....	91
Golden-bellied Water Rat.....	193	Graceful Mongoose.....	403
Golden-eared Harvest Mouse.....	259	Graceful Skunk.....	441
Golden-naped Fruit Bat.....	492	Graham Island Bat.....	503
Golden-naped Spiny Rat.....	356	Graham Mountain Meadow Vole..	298
Golden-neck Spermophile.....	169	Graham Mountains Chickaree....	143
Goldman's Spiny Rat.....	345	Granger's Bushy-tailed Wood Rat	280
Goldman's Wood Rat.....	277	Granger's Cotton-tail.....	374
Gopher, Alpine Pocket.....	320	Grant's Gazelle.....	78
Gopher, Attwater's Pocket.....	310	Gray Bushy-tailed Wood Rat	277
Gopher, Black-faced Pocket.....	317	Gray Chipmunk.....	148
Gopher, Blackish Pocket.....	318	Gray Cuscus.....	12
Gopher, Botta's Pocket.....	315	Gray Dorcopsis.....	17
Gopher, Broad-headed Pocket.....	315	Gray Fox.....	417
Gopher, Buller's Pocket.....	312	Gray Foxes.....	416
Gopher, Burrowing Pocket.....	312	Gray Lemur.....	546
Gopher, Cabezon Pocket.....	322	Gray Meadow Vole.....	291
Gopher, Cherrie's Pocket.....	313	Gray Mountain Goat.....	91
Gopher, Chestnut-faced Pocket... 311		Gray Pocket Mouse.....	342
Gopher, Digger Pocket.....	314	Gray Striped Chipmunk.....	159
Gopher, Florida Pocket.....	308	Gray-headed Pika.....	366
Gopher, Fulvous Pocket.....	317	Gray's Black Squirrel.....	132
Gopher, Golden Pocket.....	321	Gray's Bornean Squirrel.....	117
Gopher, Great Pocket.....	313	Gray's Spiny Mouse.....	346
Gopher, Heller's.....	316		

	PAGE.		PAGE.
Gray's Squirrel.....	116	Harbor Seal.....	461
Grayson's Cotton-tail.....	376	Hardwicke's Palm-civet.....	400
Gray-tailed Meadow Vole.....	291	Hare, American.....	383
Gray-tailed Squirrel.....	119	Hare, Attwater's Swamp.....	367
Great Anteater.....	24	Hare, Baird's.....	384
Great Basin Pocket Mouse.....	334	Hare, Eastern Swamp.....	367
Great Bornean Squirrel.....	113	Hare, European.....	382
Great California Pocket Mouse....	342	Hare, Florida Swamp.....	367
Great Gray Kangaroo.....	20	Hare, Greenland.....	383
Great Malabar Squirrel.....	112	Hare, Plains.....	385
Great Malay Squirrel.....	113	Hare, Polar.....	383
Great Mole Rat.....	307	Hare, Sierra.....	385
Great Pocket Gopher.....	313	Hare, Somali.....	382
Great Pocket Mouse.....	337	Hare, Townsend's.....	385
Great Vampire Bat.....	499	Hare, True's Swamp.....	368
Great-eared Bat.....	529	Hare, Wandering Swamp.....	368
Greater Desert Cotton-tail.....	375	Hare, Washington.....	384
Greater Kudu.....	88	Hare, Western.....	384
Green Monkey.....	569	Hares.....	366
Greenland Hare.....	383	Hares, Changeable.....	382
Grevy's Zebra.....	104	Hares, Chief.....	365
Grison, Colombian.....	443	Hares, Forest.....	368
Grison, South American.....	443	Hares, Short-tailed.....	376
Grisons, The.....	442	Hares, Swamp.....	367
Grizzled Brown Bat.....	501	Harp Seal.....	463
Grizzled Indian Squirrel.....	113	Harpy Bat.....	495
Grizzly Bear.....	421	Harpy Fruit Bat.....	490
Grizzly Bears.....	420	Harris's Spermophile.....	160
Growling Spotted Skunk.....	439	Hartebeest, Cape.....	56
Guatemala Squirrel.....	130	Hartebeest, Coke's.....	55
Guatemalan Gray Fox.....	418	Hartebeest, Jackson's.....	56
Guemal, Peruvian.....	52	Hartebeest, Lichtenstein's.....	56
Guereza, The.....	574	Hartebeest, Swayne's.....	55
Guiana Spiny Rat.....	355	Hartebeests.....	54
<i>Gumburi</i>	104	Harvest Mice.....	255
Gunnison's Prairie-dog.....	182	Heavy-tailed Squirrel.....	116
Günther's Dik-dik.....	67	Hedgehog, Diadem.....	466
Günther's Porcupine.....	361	Hedgehog, European.....	466
Günther's Propitheeque.....	542	Hedgehog, White-bellied.....	466
<i>Gussuli</i>	67	Hedgehogs.....	465
<i>Guyu</i>	65	Heller's Gopher.....	316
		Heller's Kangaroo Rat.....	326
Haggard's Oribi.....	64	Heller's Pocket Mouse.....	340
Hair Seals.....	461	Hernandez's Jaguar.....	389
Hairy Echidna.....	2	Hernandez's Raccoon.....	427
Hairy Hutia.....	357	Herron's Field Mouse.....	233
Hairy-eared Macacque.....	567	Himalayan Tahr.....	94
Hairy-tailed Moles.....	485	Hinds's Chipmunk.....	145
Hall Island Meadow Vole.....	295	Hispid Cotton Rat.....	244
Hamster.....	198	Hispid Pocket Mouse.....	337
Happy Chipmunk.....	154	Hispid Vampire Bat.....	499

	PAGE.		PAGE.
Hoary Bat.....	514	Indianola Spotted Skunk.....	440
Hoary Field Mouse.....	226	Indris, Black.....	541
Hoary-bellied Himalayan Squirrel.....	120	<i>Ingama</i>	56
Hocheur, The.....	569	Ingraham's Hutia.....	357
Hoffmann's Sloth.....	22	<i>Inhluzele</i>	56
Hoffmann's Squirrel.....	121	Insectivores, The.....	464
Hog, Island of Palawan Wild.....	32	Intermediate Bat.....	527, 536
Hog, Madagascar Wild.....	34	Intermediate Mole.....	484
Hog, Müller's Wild.....	32	Inyo Mountains Chipmunk.....	150
Hog, Wart.....	33	Inyo Mountains Gray Fox.....	418
Holzner's Cotton-tail.....	371	Isabella Squirrel.....	110
Hooded Skunk.....	435	Island of Mindanao Squirrel.....	118
Hooded Skunks.....	435	Island of Palawan Wild Hog.....	32
Hoofed Mammals.....	31	Island of Samar Squirrel.....	118
Hopi Chipmunk.....	156	Island Spermophile.....	179
Horses.....	102	<i>Israel, Beni</i>	65
Hose's Monkey.....	572	Isthmian Spiny Mouse.....	347
Hose's Squirrel.....	119	<i>Jabali</i>	34
House Mouse.....	196	Jack Rabbits.....	378
Howler, Coiba Island.....	556	Jackal, Black-backed.....	407
Howler, Mantled.....	555	Jackal, North African.....	408
Howler, Mexican.....	556	Jackson's Hartebeest.....	56
Howler, Red.....	554	Jaguar, Hernandez's.....	389
Howling Monkeys.....	554	Jaguarondi.....	393
Hoy's Shrew.....	472	Jaguars.....	386
Huachuca Squirrel.....	123	Jalapa Brown Mouse.....	203
Huanaco.....	36	Jalapa Field Mouse.....	242
Hudson Bay Chickaree.....	136	Jalapa Meadow Vole.....	301
Hudson Bay Jumping Mouse.....	350	Jalapa Rice Rat.....	251
Hudson Bay Sable.....	443	Jalisco Small-eared Mouse.....	235
Huet's Dormouse.....	192	Jamaica Bat.....	536
Hunting Leopard.....	397	Japanese Black Bear.....	423
Hutia, Hairy.....	357	Japanese Marten.....	446
Hutia, Ingraham's.....	357	Japanese Squirrel.....	115
Hutia, Prehensile-tailed.....	357	Jentink's Squirrel.....	118
Hutias.....	356	Jerbca, Pallas's.....	353
Hyæna Dog.....	406	Jerboas.....	353
Hyæna, Spotted.....	405	Jesup's Spiny Mouse.....	345
Hyæna, Striped.....	405	John's Monkey.....	573
Hyænas.....	404	Jumping Mice.....	349
Ibex, Alpine.....	92	Jumping Rats.....	349
Ibex, Arabian.....	92	Kadiak Island Spermophile.....	172
Illiger's Marmoset.....	554	Kadiak Island Weasel.....	450
Illinois Skunk.....	434	Kadiak Meadow Vole.....	295
Indian Antelope.....	84	Kameel, Das Amerikanische.....	36
Indian Chevrotain.....	37	Kangaroo, Common Rat.....	16
Indian Elephant.....	106	Kangaroo, Great Gray.....	20
Indian Gazelle.....	77	Kangaroo, Lesueur's Rat.....	17
Indian Marten.....	445	Kangaroo Rats.....	322
Indian Raccoon.....	423		

	PAGE.		PAGE.
Kangaroo, Red.....	19	Least Rice Rat.....	254
Kangaroo, Rufous Rat.....	17	Least Upland Meadow Vole.....	300
Kangaroos.....	16	Le Callitriche.....	568
Kansas Pocket Mouse.....	337	Le Conte's Harvest Mouse.....	255
Keeler Kangaroo Rat.....	323	Lemming, European.....	306
Kenai Peninsula Marten.....	444	Lemming, Nelson's.....	307
Kenai Peninsula Mountain Sheep..	98	Lemming, Richardson's.....	306
Kennedy's Mountain Goat.....	95	Lemming Voles.....	305
<i>Khama</i>	56	Lemmings.....	305
Kinkajou.....	429	Lemmings, Forked-claw.....	306
Kinkajou, Chiriqui.....	429	Lemur, Black-eared.....	548
Kinkajou, Martin's.....	430	Lemur, Black-headed.....	544
Kinkajous.....	429	Lemur, Flying.....	464
Kirk's Dik-dik.....	66	Lemur, Gray.....	546
Klamath Flying Squirrel.....	185	Lemur, Mongoose.....	544
Klamath Harvest Mouse.....	259	Lemur, Philippine Islands Flying..	464
Klipspringer.....	63	Lemur, Red-bellied.....	545
Koala.....	15	Lemur, Red-fronted.....	544
Kob, White-eared.....	69	Lemur, Ring-tailed.....	546
<i>Kongoni</i>	55	Lemur, Ruffed.....	544
Kra, The.....	567	Lemur, Small-toothed.....	547
<i>Kring-hart</i>	69	Lemur, Weasel.....	547
Kuching Prevost Squirrel.....	119	Lemur, White-fronted.....	544
Kudu, Greater.....	88	Lemur, Woolly.....	543
Kudu, Lesser.....	88	Lemurs.....	541, 543
<i>Kuro</i>	67	Lemurs, Flying.....	464
La Carpintera Field Mouse.....	241	<i>Leon miquero</i>	393
La Grulla Brown Bat.....	502	<i>Leon monero</i>	393
La Palma Field Mouse.....	236	Leopard.....	388
La Parada Spiny Rat.....	344	Leopard, Hunting.....	397
Lacey's Harvest Mouse.....	261	Leopard, Snow.....	387
Langsdorff's Squirrel.....	122	Les Moufettes.....	432
Langur, The.....	573	Lesser Desert Cotton-tail.....	376
Large Indian Squirrel.....	112	Lesser Kudu.....	88
Large Pocket Gophers.....	313	Lesueur's Rat Kangaroo.....	17
Large Shrew Mole.....	480	Lichtenstein's Hartebeest.....	56
Large-eared Fox.....	407	<i>Lijero Perico</i>	22
Large-eared Mole Mouse.....	202	Linnæus's Dormouse.....	192
Large-eared Vampire Bat.....	529	Linnæus's Opossum.....	7
Large-eared Wood Rat.....	265	Linsang.....	399
Large-nosed Mole.....	484	Lion.....	392
Large-spined Porcupine.....	361	Lions.....	391
Large-striped Skunks.....	432	Little Bat.....	512
Large-winged Bat.....	500	Little Brown Bat.....	504
Las Peñas Bat.....	526	Little California Bat.....	503
Las Vigas Harvest Mouse.....	260	Little Desert Pocket Mouse.....	340
Las Vigas Pocket Gopher.....	311	Little Gray Fox.....	418
Least Chipmunk.....	156	Little Microgale.....	488
Least Cotton Rat.....	248	Little or Two-toed Anteater.....	23
Least Pika.....	366	Little Red-spotted Cat.....	391
		Little Spermophile.....	167

	PAGE.		PAGE.
Little Spiny Mouse.....	347	Macaque, Hairy-eared.....	567
Little Spotted Skunks.....	438	Madagascar Free-tailed Bat.....	525
Littoral Spiny Mouse.....	345	Madagascar Rice-digger.....	489
Lively Cotton-tail.....	370	Madagascar Shrew.....	479
Livingstone's Eland.....	90	Madagascar Wild Hog.....	34
Llama.....	37	<i>Madoqua</i>	62
Llamas.....	36	Major's Madagascar Rat.....	199
<i>Lobo</i>	411	Malacca Weasel.....	398
Lone Pine Pocket Gopher.....	321	Malay Bear.....	423
Lonely Wood Rat.....	272	Malay Tapir.....	102
Long-eared Bat.....	518	Malayan Palm-civet.....	400
Long-footed Kangaroo Rat.....	330	Mammals, Hoofed.....	31
Long-nosed Bat.....	532	Manatee.....	30
Long-nosed Mouse.....	237	Mandrill.....	564
Long-nosed Rat.....	263	Maned Fruit Bat.....	492
Long-nosed Squirrel.....	111	Mangabey, Sooty.....	568
Long-spined Porcupines.....	358	<i>Manigordo</i>	389
Long-tailed Anteater.....	24	Mantled Howler.....	555
Long-tailed Field Mouse.....	196	Marche's Badger.....	432
Long-tailed Fox.....	414	Margay, The.....	390
Long-tailed Harvest Mouse.....	258	Maria Madre Island Bat.....	532
Long-tailed Meadow Vole.....	296	Marica Opossum.....	4
Long-tailed Mouse.....	226	Markhor.....	93
Long-tailed Pocket Mouse.....	335	Marmoset, Black-eared.....	553
Long-tailed Spermophile.....	175	Marmoset, Illiger's.....	554
Long-tailed Texan Skunk.....	434	Marmoset, White-footed.....	553
Long-tailed Weasel.....	451	Marmosets.....	553
Long-winged Bat.....	516	Marsupials.....	3
Loris, Slow.....	550	Marten, Active.....	444
Lotong, Paitan.....	572	Marten, American.....	443
Lotong, The.....	572	Marten, Beech.....	445
Lotong, Thomas's.....	572	Marten, East Indies.....	445
Lower California Brown Bat.....	511	Marten, Farthest North.....	444
Lower California Chipmunk.....	147	Marten, Indian.....	445
Lower California Cotton-tail.....	378	Marten, Japanese.....	446
Lower California Jack Rabbit.....	382	Marten, Kenai Peninsula.....	444
Lower California Mountain Sheep.....	96	Marten, Rocky Mountain.....	444
Lower California Skunk.....	435	Martens.....	443
Lower California Spermophile.....	162	Martin's Kinkajou.....	430
Lowe's Squirrel.....	118	Mascota Cotton Rat.....	246
Lucas's Bat.....	495	Masked Bat.....	526
Lynx, Bailey's.....	395	Masked Shrew.....	467
Lynx, Barred.....	395	Mauritius Fruit Bat.....	491
Lynx, California.....	396	Maximilian's Pocket Mouse.....	331
Lynx, Canada.....	394	Meadow Voles.....	286
Lynx, Florida.....	396	Mearns's Chickaree.....	142
Lynx, Red.....	394	Mearns's Cotton-tail.....	369
Lynx, Soft-furred.....	394	Mearns's Coyote.....	410
Lynxes.....	394	Mearns's Field Mouse.....	226
Lyster's Striped Chipmunk.....	158	Mearns's Skunk.....	437
		Meerkat, Bushy-tailed.....	404

	PAGE.		PAGE.
Merida Rice Rat.....	252	Mirador Brown Bat.....	511
Merriam's Chipmunk.....	146	Mixed Cotton-tail.....	373
Merriam's Jack Rabbit.....	380	Mobile Pocket Gopher.....	309
Merriam's Kangaroo Rat.....	322	Mogollon Mountains Meadow Vole.....	299
Merriam's Pocket Mouse.....	331	Mohave Desert Spermophile.....	165
Mexican Agouti.....	363	Mohave Desert Wood Rat.....	267
Mexican Free-tailed Bat.....	524	Mole, Brewer's Hairy-tailed.....	485
Mexican Grizzly Bear.....	422	Mole, California.....	482
Mexican Howler.....	556	Mole, Coast.....	482
Mexican Meadow Vole.....	298	Mole, Common.....	483
Mexican Mouse.....	242	Mole, European.....	480
Mexican Murine Opossum.....	4	Mole, Florida.....	484
Mexican Opossum.....	7	Mole, Gibbs's Shrew.....	480
Mexican Prong-horn.....	54	Mole, Intermediate.....	484
Mexican Spermophile.....	165	Mole, Large Shrew.....	480
Mexican Spider Monkey.....	559	Mole, Large-nosed.....	484
Mexican Timber Wolf.....	411	Mole Mouse.....	307
Mexican Vampire Bat.....	529	Mole Rats.....	307
Mexican Wood Rat.....	270	Mole, Star-nosed.....	480, 481
Mice.....	192	Mole, Texas.....	485
Mice, Field.....	202	Mole, Townsend's.....	482
Mice, Harvest.....	255	Moles.....	479
Mice, Jumping.....	349	Moles, Common.....	482
Mice, Pocket.....	322, 331	Moles, Hairy-tailed.....	485
Mice, Pouched Spiny.....	344	Moles, Shrew-like.....	479
Michigan Field Mouse.....	239	Moles, Star-nosed.....	480
Michoacan Cotton-tail.....	371	Moles, Western.....	481
Michoacan Squirrel.....	129	<i>Monero, Leon</i>	393
Microgale, Cowan's.....	488	Monkey, Bengal.....	567
Microgale, Dobson's.....	488	Monkey, Brazza's.....	569
Microgale, Forsyth-Major's.....	488	Monkey, Copper-colored.....	558
Microgale, Little.....	488	Monkey, Erxleben's.....	570
<i>Middqua</i>	62	Monkey, Green.....	569
Middendorff's Brown Bear.....	420	Monkey, Hose's.....	572
Miller's Bat.....	501	Monkey, John's.....	573
Miller's Skunk.....	437	Monkey, Mexican Spider.....	559
Milne-Edwards's Fruit Bat.....	490	Monkey, Mouse-colored.....	573
Milne-Edwards's Mountain Goat.....	91	Monkey, Moustache.....	569
Minca Spiny Rat.....	355	Monkey, Csted's Titi.....	559
Mindoro Buffalo.....	100	Monkey, Proboscis.....	570
Mine Haunting Mouse.....	206	Monkeys, Howling.....	554
Mink.....	446	Monkeys, Prehensile-tailed.....	554
Mink, Black-footed.....	448	Monkeys, Spider.....	559
Mink, Common.....	447	Monkeys, Squirrel.....	556
Mink, Dark-hued.....	447	<i>Mono carablanca</i>	562
Mink, Devilish.....	447	Monotremes.....	1
Minnesota Chickaree.....	138	Monterey Shrew.....	471
Minnesota Gray Squirrel.....	134	Moose.....	42
Minnesota White-footed Deer		Moose, Alaskan.....	42
Mouse.....	213	<i>Moran</i>	34
<i>Miquero, Leon</i>	393	Motzorongo Skunk.....	438

	PAGE.		PAGE.
Moufettes, Les	432	Mouse, Desert Pocket	338
Mount Kina Balu Squirrel	119	Mouse, Desert White-footed	210
Mount Malinche Mouse	241	Mouse, Dickinson's Harvest	256
Mount McKinley Wolverine	442	Mouse, Diligent Harvest	256
Mount Pinos Mouse	235	Mouse, Dyche's Harvest	256
Mount Pinos Pocket Mouse	333	Mouse, Florida Field	216, 235
Mount Pinos Wood Rat	267	Mouse, Frisky	225
Mountain Bushy-tailed Wood Rat	279	Mouse, Fulvous Field	214
Mountain Caribou	40	Mouse, Gambel's	218
Mountain Loving Mouse	208	Mouse, Golden Breasted	229
Mountain Meadow Vole	298	Mouse, Golden-eared Harvest	259
Mountain Pocket Gopher	316	Mouse, Gray Pocket	342
Mountain Shrew	472	Mouse, Gray's Spiny	346
Mountain Vole	282	Mouse, Great Basin Pocket	334
Mountain Zebra	104	Mouse, Great California Pocket	342
Mourning Nose-leaf Bat	498	Mouse, Great Pocket	337
Mouse, Akeley's Field	224	Mouse, Heller's Pocket	340
Mouse, Allen's Jumping	352	Mouse, Herron's Field	233
Mouse, Allen's Pocket	343	Mouse, Hispid Pocket	337
Mouse, Allen's Spiny	346	Mouse, Hoary Field	226
Mouse, Allied Field	240	Mouse, House	196
Mouse, Alston's	263	Mouse, Hudson Bay Jumping	350
Mouse, Anastasia Island	207, 217	Mouse, Jalapa Brown	203
Mouse, Anthony's	205	Mouse, Jalapa Field	242
Mouse, Apache Pocket	332	Mouse, Jalisco Small-eared	235
Mouse, Arctic Field	220	Mouse, Jesup's Spiny	345
Mouse, Arizona Harvest	260	Mouse, Kansas Pocket	337
Mouse, Arizona White-footed Deer	213	Mouse, Klamath Harvest	259
Mouse, Attractive Harvest	262	Mouse, La Carpintera Field	241
Mouse, Attwater's Field	231	Mouse, La Palma Field	236
Mouse, Aztec	241	Mouse, Lacey's Harvest	261
Mouse, Baird's Pocket	332	Mouse, Large-eared Mole	202
Mouse, Bangs's Pocket	333	Mouse, Las Vigas Harvest	260
Mouse, Beautiful Mole	202	Mouse, Le Conte's Harvest	255
Mouse, Beautiful Pocket	333	Mouse, Little Desert Pocket	340
Mouse, Big-eared Harvest	257	Mouse, Little Spiny	347
Mouse, Black-eared Field	240	Mouse, Littoral Spiny	345
Mouse, Blackish Field	234	Mouse, Long-nosed	237
Mouse, Boquete Field	243	Mouse, Long-tailed	226
Mouse, Boyle's Field	227	Mouse, Long-tailed Field	196
Mouse, Broad-footed	243	Mouse, Long-tailed Harvest	258
Mouse, Buff-colored Pocket	336	Mouse, Long-tailed Pocket	335
Mouse, California	206	Mouse, Maximilian's Pocket	331
Mouse, California Pocket	343	Mouse, Mearns's Field	226
Mouse, Canadian Field	217	Mouse, Merriam's Pocket	331
Mouse, Captious Harvest	260	Mouse, Mexican	242
Mouse, Catalina Island	225	Mouse, Michigan Field	239
Mouse, Chapman's	207	Mouse, Mine Haunting	206
Mouse, Costa Rica Harvest	261	Mouse, Minnesota White-footed	
Mouse, Cotton Tree	216	Deer	213
Mouse, Desert	204	Mouse, Mole	307

	PAGE.		PAGE.
Mouse, Mount Malinche.....	241	Mouse, Squirrel Inn.....	233
Mouse, Mount Pinos.....	235	Mouse, Stephens's.....	230
Mouse, Mount Pinos Pocket.....	333	Mouse, Stephens's Pocket.....	340
Mouse, Mountain Loving.....	208	Mouse, Subarctic Field.....	221
Mouse, Mule-eared.....	208	Mouse, Tawny Field.....	215
Mouse, Naked Mole.....	349	Mouse, Taylor's.....	203
Mouse, Nebraska Field.....	220	Mouse, Texan Spiny.....	347
Mouse, Nebraska Harvest.....	257	Mouse, Texas Field.....	21
Mouse, Northern White-footed Deer.....	210	Mouse, Thompson's Spiny.....	345
Mouse, Northwest Jumping.....	331	Mouse, Thurber's Field.....	222
Mouse, Northwest Pocket.....	335	Mouse, Tropical Mole.....	201
Mouse, Nuttall's Golden.....	238	Mouse, Troublesome.....	236
Mouse, Oaxaca Harvest.....	262	Mouse, Troublesome Field.....	225
Mouse, Oposura Harvest.....	261	Mouse, True's.....	237
Mouse, Pale Michigan.....	240	Mouse, Ulrich's.....	263
Mouse, Pale Mole.....	201	Mouse, White-bellied.....	207
Mouse, Pallid Harvest.....	259	Mouse, White-bellied Mole.....	200
Mouse, Pallid Pocket.....	341	Mouse, White-footed Deer.....	208
Mouse, Panamint Mountains Pocket.....	333	Mouse, White-spot Field.....	214
Mouse, Parasite.....	229	Mouse, Woodland Jumping.....	353
Mouse, Patzcuaro Harvest.....	262	Mouse, Woolly.....	236
Mouse, Peninsular Harvest.....	260	Mouse, Yavapai Pocket.....	332
Mouse, Prairie Jumping.....	350	Mouse-colored Monkey.....	573
Mouse, Price's Pocket.....	339	Mouse-lemur Murine.....	548
Mouse, Ramona Mole.....	201	Moustache Monkey.....	569
Mouse, Reddish.....	229	Mrs. Gray's Waterbuck.....	69
Mouse, Related White-footed.....	232	Mouflon, European.....	98
Mouse, Rocky Mountain Jumping.....	351	Mule Deer.....	49
Mouse, Rowley's Field.....	228	Mule-eared Mouse.....	208
Mouse, Rowley's Pine.....	228	Müller's Wild Hog.....	32
Mouse, Rufous Harvest.....	262	Mongoose, Atkinson's.....	403
Mouse, Sachem or Chief.....	233	Mongoose, Common Indian.....	403
Mouse, San Joaquin Pocket.....	334	Mongoose, Graceful.....	403
Mouse, San Pedro Martir Mountains.....	237	Mongoose Lemur.....	544
Mouse, San Quentin.....	224	Mongoose.....	397
Mouse, San Quentin Pocket.....	336	Muntjac, Chinese.....	39
Mouse, Santa Catalina Island Har- vest.....	259	Murdering Fox.....	414
Mouse, Saskatchewan Jumping... ..	351	Murine Mouse-lemur.....	548
Mouse, Shaw's.....	193	Murine Opossum.....	3
Mouse, Short-eared California Pocket.....	340	Musk Rat.....	303
Mouse, Short-nosed Pocket.....	334	Musk Rats.....	303
Mouse, Short-tailed Mole.....	201	Musk-deer.....	38
Mouse, Shy Field.....	241	Musk-ox.....	99
Mouse, Silver-gray Mole.....	348	Musk-ox, Black.....	99
Mouse, Slender-nosed Pocket.....	338	Mysterious Squirrel.....	109
Mouse, Sonora White-footed Field.....	213		
Mouse, Southern Pocket.....	336	Naas, Spring.....	354
Mouse, Speke's Jumping.....	354	Naked Mole Mouse.....	349
Mouse, Spiny Pocket.....	343	Nandina.....	401
		Narrow-skull Bat.....	532
		Navigator Shrew.....	473

	PAGE.		PAGE.
Nayarit Squirrel.....	122	Olympic Mountains Sewellel.....	189
Nebraska Coyote.....	409	Olympic Mountains Spotted Skunk	441
Nebraska Field Mouse.....	220	Olympic Mountains Vole.....	282
Nebraska Harvest Mouse.....	257	Olympic Mountains Woodchuck..	184
Neglected Chipmunk.....	155	<i>Ondatra</i>	303
Nelson's Lemming.....	307	<i>Onza</i>	393
Nelson's Spermophile.....	163	Opossum, Ashy.....	4
Newfoundland Caribou.....	41	Opossum, Chapman's.....	5
Newfoundland Meadow Vole.....	299	Opossum, Eten.....	7
<i>Ngazi</i>	56	Opossum, Linnaeus's.....	7
Night-wandering Bat.....	506	Opossum, Marica.....	4
Nilgai.....	84	Opossum, Mexican.....	7
Nimble Kangaroo Rat.....	327	Opossum, Mexican Murine.....	4
Nine-banded Armadillo.....	27	Opossum, Murine.....	3
Ningpo Vinous-bellied Squirrel....	116	Opossum, Orizaba.....	6
Noisy Chickaree.....	137	Opossum, Pale Woolly.....	5
Noland's Ranch Coyote.....	410	Opossum, Philander.....	6
North African Jackal.....	408	Opossum, Pigmy.....	4
Northern Chipmunk.....	155	Opossum, Quica.....	6
Northern Gray Squirrel.....	133	Opossum, Tabasco.....	8
Northern Plains Skunk.....	433	Opossum, Virginian.....	8
Northern Sea Otter.....	456	Opossums.....	3
Northern Weasel.....	450	Oposura Harvest Mouse.....	261
Northern White-footed Deer Mouse	210	Orang-utan.....	577
Northwest Chipmunk.....	153	Oregon Flying Squirrel.....	185
Northwest Jumping Mouse.....	351	Oregon Meadow Vole.....	302
Northwest Pocket Mouse.....	335	Oregon Musk Rat.....	304
Northwest Territory Musk Rat....	304	Oregon Spermophile.....	175
Northwestern Black Bear.....	422	Oregon Weasel.....	452
Northwestern Puma.....	392	Oribi, Abyssinian.....	64
Norway Rat.....	194	Oribi, Haggard's.....	64
Nose-leaf Bats.....	496	Orizaba Opossum.....	6
Notable Kangaroo Rat.....	327	Orizaba Wood Rat.....	277
Nuttall's Cotton-tail.....	374	Ornamented Shrew.....	471
Nuttall's Golden Mouse.....	238	Oryx, Scimitar.....	83
		<i>Oso Real</i>	24
Oak Dormouse.....	192	Otter, Canada.....	454
Oaxaca Harvest Mouse.....	262	Otter, Common.....	454
Ocelot.....	389	Otter, Northern Sea.....	456
Ocelot, Striped.....	389	Otter, Pacific.....	454
Ochraceous Red-backed Vole.....	284	Otters.....	430, 454
Ochraceous-footed Coyote.....	411	Otters, Sea.....	455
Ocotlan Cotton Rat.....	247	Oxen.....	54
Ocotlan Rice Rat.....	251		
Ocotlan Slender Shrew.....	478	Paca.....	362, 364
Otodonts, The.....	354	Paca, The.....	364
Ested's Titi Monkey.....	559	Pacific Big-eared Bat.....	518
Old World Porcupines.....	361	Pacific Coast Beaver.....	190
Olivaceous Spermophile.....	167	Pacific Coast Wapiti.....	44
Olympic Meadow Vole.....	297	Pacific Fisher.....	445
Olympic Mountains Flying Squirrel	185	Pacific Otter.....	454

	PAGE.		PAGE.
Pacific Sewellel.....	189	Pennant's Fisher.....	445
Pacific Shrew.....	472	Pennsylvania Meadow Vole.....	287
Pacific Walrus.....	459	Pennsylvania Wood Rat.....	270
Pademelon Wallaby.....	19	Penrice's Waterbuck.....	69
Painted Chipmunk.....	157	<i>Perico Lijero</i>	22
Paitan Lotong.....	572	Peron's Bat.....	494
Palearctic Water Shrew.....	478	Perote Pocket Gopher.....	311
Pale Bat.....	503	Perote Squirrel.....	128
Pale Capuchin.....	561	<i>Perrito</i>	181
Pale Michigan Mouse.....	240	<i>Perrito del Campo</i>	181
Pale Mole Mouse.....	201	Peruvian Guemal.....	52
Pale Musk Rat.....	304	Peters's Shrew.....	465
Pale Pocket Gopher.....	310, 321	Phalanger, Common.....	12
Pale Spermophile.....	165	Phalanger, Pigmy Flying.....	15
Pale Woolly Opossum.....	5	Phalanger, Short-eared.....	13
Pale-striped Squirrel.....	112	Phalanger, Squirrel Flying.....	14
Pallah.....	72	Phalanger, Striped.....	14
Pallah, Angolan.....	72	Phalanger, Taguan Flying.....	13
Pallas's Bat.....	495	Phalanger, Tasmanian.....	13
Pallas's Jerboa.....	353	Phalangers.....	11
Pallid Harvest Mouse.....	259	Philander Opossum.....	6
Pallid Pocket Mouse.....	341	Philippine Islands Flying Lemur ..	464
Pallid Spermophile.....	167	Phillips's Dik-dik.....	66
Palm Springs Free-tailed Bat.....	523	Pichichiago, The.....	25
Palm Squirrel.....	112	Pichy, The.....	26
Palm-civet, Hardwicke's.....	400	Pigmy Flying Phalanger.....	15
Palm-civet, Malayan.....	400	Pigmy Opossum.....	4
Palm-civet, Small-toothed.....	401	Pigs.....	31
Pampas Deer.....	50	Pika, Chief.....	365
Panama Bat.....	514	Pika, Gray-headed.....	366
Panamint Kangaroo Rat.....	329	Pika, Least.....	366
Panamint Mountains Chipmunk ..	152	Pika, Rock.....	366
Panamint Mountains Pocket Mouse	333	Pikas.....	365
Pangolin.....	28	Pine Barrens Pocket Gopher.....	308
Pangolins.....	27	Pine Meadow Vole	301
Papion, The.....	562	Pine Wood Cotton-tail.....	375
Parasite Mouse.....	229	<i>Pisoti</i>	427
Parry's Spermophile.....	171	Plains Cotton-tail.....	373
Pasang.....	92	Plains Hare.....	385
Patzcuaro Harvest Mouse.....	262	Platypus, Duck-billed.....	2
Pearson's Nose-leaf Bat.....	497	Pocket Gophers.....	308, 313
Peccaries.....	34	Pocket Mice.....	322, 331
Paccary, Armeria.....	35	Poey's Bat.....	534
Peccary, Fierce.....	35	Poku, The.....	69
Peccary, Texan.....	34	Polar Bear.....	420
Peccary, White-lipped.....	35	Polar Hare.....	383
Pekin Sika.....	43	Pollen's Fruit Bat.....	493
Pel's Flying Squirrel.....	107	Popof Island Meadow Vole.....	295
Peludo.....	26	Popof Island Shrew.....	470
Pelzeln's Gazelle.....	77	Porcupine, Canadian Tree.....	359
Peninsular Harvest Mouse.....	260	Porcupine, European.....	361

	PAGE.		PAGE.
Porcupine, Günther's.....	361	Rabbit Bandicoot.....	10
Porcupine, Large-spined.....	316	Rabbit, Beautiful-eared Jack.....	379
Porcupine, Phehensile-tailed.....	360	Rabbit, Black-eared Jack.....	380
Porcupine, Western.....	358	Rabbit, California Jack.....	381
Porcupines, Long-spined.....	358	Rabbit, Desert Jack.....	380
Porcupines, Old World.....	361	Rabbit, European.....	378
Pouched Bat.....	520	Rabbit, Lower California Jack.....	382
Pouched Rats.....	308	Rabbit, Merriam's Jack.....	380
Pouched Spiny Mice.....	344	Rabbit, San Pedro Martir Jack.....	382
Pouched Spiny Rats.....	344	Rabbit, Western Desert Jack.....	380
Powerful Pocket Gophers.....	310	Rabbit, Yellow-throated Jack.....	379
Prairie Jumping Mouse.....	350	Rabbits.....	366
Prairie Meadow Vole.....	300	Rabbits, Jack.....	378
Prairie-dog.....	181	Raccoon, Common.....	426
Prairie-dog, Arizona.....	181	Raccoon, Hernandez's.....	427
Prairie-dog, Gunnison's.....	182	Raccoon, Indian.....	423
Prairie-dog, Red.....	181	Raccoon-fox, Common.....	424
Prairie-dogs.....	180	Raccoon-fox, Robber.....	425
Prehensile-tailed Hutia.....	357	Raccoon-fox, White-footed.....	425
Prehensile-tailed Monkeys.....	554	Raccoon-like Dog.....	406
Prehensile-tailed Porcupine.....	360	Raccoons.....	423
Pretty Striped Bat.....	539	Rafinesque's Bat.....	515
Prevost's Squirrel.....	119	Ramona Mole Mouse.....	201
Pribilof Islands Fur Seal.....	458	Rat, Allen's Wood.....	282
Price's Chipmunk.....	145	Rat, Allied Kangaroo.....	324
Price's Pocket Mouse.....	339	Rat, Allied Wood.....	266
Primates.....	541	Rat, Aquatic Rice.....	250
Proboscis Monkey.....	570	Rat, Arizona Cotton.....	246
Prominent-eared Bat.....	501	Rat, Attwater's Wood.....	270
Prong-horn.....	53	Rat, Bailey's Wood.....	269
Prong-horn Antelope.....	533	Rat, Beautiful Wood.....	276
Prong-horn, Mexican.....	54	Rat, Beaver.....	356
Propitheeque, Coquerel's.....	542	Rat, Betsileo.....	199
Propitheeque, Crowned.....	542	Rat, Black.....	194
Propitheeque, Günther's.....	542	Rat, Black-eared Rice.....	252
Propitheeque, The.....	542	Rat, Bogava Spiny.....	356
Propitheeque, Verreaux's.....	542	Rat, Boqueron Cotton.....	248
Propitheeque, Von Decken's.....	542	Rat, Boruca Cotton.....	247
Protected Squirrel.....	110	Rat, Broad-nose Rice.....	252
Pryer's Squirrel.....	117	Rat, Brown.....	195
Puebla Cotton-sail.....	371	Rat, British Columbia Bushy-tailed Wood.....	279
Puebla Squirrel.....	129	Rat, Bruijn's.....	197
Puget Sound Skunk.....	435	Rat, California Kangaroo.....	325
Pugnacious Weasel.....	449	Rat, Cameron Lake Wood.....	271
Puma, Eastern.....	393	Rat, Cane.....	358
Puma, Northwestern.....	392	Rat, Cape Mole.....	348
Pumas.....	391	Rat, Cape of Good Hope Mole.....	348
Quica Opossum.....	6	Rat, Chapman's Kangaroo.....	330
Rabbit, Allen's Jack.....	379	Rat, Chapman's Rice.....	251
		Rat, Cherrie's Rice.....	254

	PAGE.		PAGE.
Rat, Cinnamon Bushy-tailed Wood	281	Rat, Mountain Bushy-tailed Wood	279
Rat, Coast Cotton.....	245	Rat, Musk.....	303
Rat, Colorado Bushy-tailed Wood.	280	Rat, Nimble Kangaroo.....	327
Rat, Cunning Jumping.....	349	Rat, Northwest Territory Musk...	304
Rat, Death Valley Kangaroo.....	325	Rat, Norway.....	194
Rat, Death Valley Wood.....	271	Rat, Notable Kangaroo.....	327
Rat, Deceitful Rice.....	251	Rat, Ocotlan Cotton.....	247
Rat, Deceitful Wood.....	272	Rat, Ocotlan Rice.....	251
Rat, Desert Kangaroo.....	326	Rat, Oregon Musk.....	304
Rat, Dissimilar Wood.....	266	Rat, Orizaba Wood.....	277
Rat, Doubtful Kangaroo.....	323	Rat, Pale Musk.....	304
Rat, Drummond's Bushy-tailed Wood.....	278	Rat, Panamint Kangaroo.....	329
Rat, Dusky Musk.....	305	Rat, Pennsylvania Wood.....	270
Rat, Dusky-footed Wood.....	264	Rat, Red Madagascar.....	198
Rat, El General Rice.....	254	Rat, Related Wood.....	267
Rat, Fat Sand.....	193	Rat, Rhoads's Wood.....	273
Rat, Field Wood.....	275	Rat, Richardson's Kangaroo.....	330
Rat, Florida Wood.....	269	Rat, Robert's Madagascar.....	199
Rat, Fulvous Rice.....	253	Rat, Rock-dwelling Bushy-tailed Wood.....	281
Rat, Fuscous Bushy-tailed Wood.	280	Rat, Rufous.....	196
Rat, Gaumer's Spiny.....	345	Rat, San Felipe Desert.....	276
Rat, Golden-bellied Water.....	193	Rat, San Felipe Kangaroo.....	325
Rat, Golden-naped Spiny.....	356	Rat, Santa Marta Cotton.....	248
Rat, Goldman's Spiny.....	345	Rat, Short-tailed Madagascar.....	199
Rat, Goldman's Wood.....	277	Rat, Short-tailed Rice.....	255
Rat, Granger's Bushy-tailed Wood.....	280	Rat, Sierra Madre Wood.....	271
Rat, Gray Bushy-tailed Wood....	277	Rat, Small Kangaroo.....	324
Rat, Great Mole.....	307	Rat, Small Madagascar.....	199
Rat, Guiana Spiny.....	355	Rat, Small-footed Wood.....	268
Rat, Heller's Kangaroo.....	326	Rat, Sorcerer.....	198
Rat, Hispid Cotton.....	244	Rat, Spotted-belly Rice.....	252
Rat, Isthmian Spiny.....	347	Rat, Stolzmann's Rice.....	253
Rat, Jalapa Rice.....	251	Rat, Streater's Kangaroo.....	329
Rat, Keeler Kangaroo.....	323	Rat, Streater's Wood.....	266
Rat, La Parada Spiny.....	344	Rat, Suerre Rice.....	255
Rat, Large-eared Wood.....	265	Rat, Surber's Wood.....	268
Rat, Least Cotton.....	248	Rat, Swamp Rice.....	249
Rat, Least Rice.....	254	Rat, Swimming.....	244
Rat, Lonely Wood.....	272	Rat, Swimming Rice.....	250
Rat, Long-footed Kangaroo.....	330	Rat, Tanala.....	200
Rat, Long-nosed.....	263	Rat, Texan Cotton.....	245
Rat, Major's Madagascar.....	199	Rat, Toltec Cotton.....	247
Rat, Mascota Cotton.....	246	Rat, Trinidad Rice.....	252
Rat, Merida Rice.....	252	Rat, Trinidad Spiny.....	355
Rat, Merriam's Kangaroo.....	322	Rat, Venezuela Fan.....	243
Rat, Mexican Wood.....	270	Rat, Western Bushy-tailed Wood	278
Rat, Minca Spiny.....	355	Rat, White-bellied Rice.....	250
Rat, Mohave Desert Wood.....	267	Rat, White-bellied Water.....	193
Rat, Mount Pinos Wood.....	267	Rat, White-eared Cotton.....	248
		Rat, White-throated Wood.....	275

	PAGE.		PAGE.
Rat, White-tipped Bushy-tailed Wood.....	280	Rice Rats.....	249
Rat, Winge's Fish-eating.....	262	Rice-digger, Black.....	489
Rat, Yellow Wood.....	275	Rice-digger, Four-toed.....	489
Rats.....	192	Rice-digger, Madagascar.....	489
Rats, Bushy-tailed Wood.....	277	Richard's Harbor Seal.....	462
Rats, Cotton.....	244	Richardson's Chickaree.....	139
Rats, Five-toed Kangaroo.....	327	Richardson's Flying Squirrel	185
Rats, Four-toed Kangaroo.....	322	Richardson's Kangaroo Rat.....	330
Rats, Jumping.....	349	Richardson's Lemming.....	306
Rats, Kangaroo.....	322	Richardson's Pocket Gopher.....	316
Rats, Mole.....	307	Richardson's Southern Pocket Gopher.....	318
Rats, Musk.....	303	Richardson's Sperophile.....	173
Rats, Pouched.....	308	Richardson's Weasel.....	449
Rats, Pouched Spiny.....	344	Rich-colored Cotton-tail.....	377
Rats, Rice	249	Rich-colored Red-backed Vole....	284
Rats, Wood.....	263	Ringed Seal.....	462
<i>Ratton, Tlacuazin</i>	3	Ring-tailed Lemur.....	546
<i>Real Oso</i>	24	Ring-tailed Sperophile.....	180
Red Bat.....	512	Roan Antelope.....	82
Red Cat-bear.....	423	Robber Coyote	409
Red Fox.....	413	Robber Raccoon-fox.....	425
Red Foxes.....	413	Robert's Madagascar Rat.....	199
Red Howler.....	554	Rock Pika.....	366
Red Kangaroo.....	19	Rock-dwelling Bushy-tailed Wood Rat.....	281
Red Lynx.....	394	Rocky Mountain Goat.....	94
Red Madagascar Rat.....	198	Rocky Mountain Jumping Mouse..	351
Red Prairie-dog.....	181	Rocky Mountain Marten.....	444
Red Spiny Squirrel.....	109	Rocky Mountain Sheep.....	96
Red-arm Squirrel.....	115	Rodents.....	107
Red-backed Flying Squirrel.....	107	Roe, Siberian	45
Red-backed Voles.....	283	Roebuck.....	45
Red-bellied Lemur.....	545	Rothschild's White-tailed Deer...	48
Red-bellied Squirrel.....	116	Round-tailed Sperophile.....	164
Reddish Brown Short-tailed Bat..	531	Rowley's Field Mouse	228
Reddish Meadow Vole.....	292	Rowley's Pine Mouse.....	228
Reddish Mouse.....	229	Royal Fox.....	414
Red-fronted Lemur.....	544	Ruffed Lemur.....	544
Reedbuck.....	70	Rufous Harvest Mouse.....	262
Reedbuck, Chanler's.....	71	Rufous Rat.....	196
Reedbuck, Ward's.....	71	Rufous Rat Kangaroo	17
Reindeer.....	40	Rufous Sewellel.....	188
Related Chipmunk	150, 156	Rufous Vampire Bat.....	540
Related White-footed Mouse.....	232	Ruminants.....	38
Related Wood Rat.....	267	Russet-footed Cotton-tail.....	372
Restless Bat.....	516		
Restless Cavy.....	364	Sable Antelope.....	83
Revoil's Shrew.....	465	Sable, Hudson Bay.....	443
Rhinoceros, Sumatran.....	105	Sables.....	443
Rhinoceroses.....	104	Sachem, or Chief Mouse.....	233
Rhoads's Wood Rat.....	273		

	PAGE.		PAGE.
Saiga, The.....	72	Serow.....	91
<i>Sakdro</i>	65, 66	Serval, The.....	391
<i>Sakkaro</i>	67	Sewellel, Dark.....	189
Salt's Dik-dik.....	65	Sewellel, Olympic Mountains.....	189
Sambar.....	43	Sewellel, Pacific.....	189
San Bernardino Brown Bat.....	511	Sewellel, Rufous.....	188
San Bernardino Spermophile.....	171	Sewellels.....	188
San Diego Cotton-tail.....	372	Shaw's Mouse.....	193
San Domingo Bat.....	534	Shaw's Pocket Gopher.....	309
San Felipe Desert Rat.....	276	Sheep.....	54
San Felipe Kangaroo Rat.....	325	Sheep, Black Mountain.....	96
San Joaquin Pocket Mouse.....	334	Sheep, Blue Wild.....	95
San Pedro Martir Jack Rabbit.....	382	Sheep, Dall's Mountain.....	98
San Pedro Martir Mountains Mouse.....	237	Sheep, Kenai Peninsula Mountain.....	98
San Pedro Martir Pocket Gopher.....	319	Sheep, Lower California Mountain.....	96
San Pedro Martir Spotted Skunk.....	441	Sheep, Rocky Mountain.....	96
San Quentin Mouse.....	224	Short-eared California Pocket Mouse.....	340
San Quentin Pocket Mouse.....	336	Short-eared Phalanger.....	13
Sandakan Great Squirrel.....	113	Short-hand Bat.....	525
Santa Catalina Island Gray Fox.....	419	Short-headed Pocket Gopher.....	310
Santa Catalina Island Harvest Mouse.....	259	Short-nosed Pocket Mouse.....	334
Santa Marta Cotton Rat.....	248	Short-tailed Hares.....	376
Sartori's Brocket.....	52	Short-tailed Madagascar Rat.....	199
<i>Sasa</i>	63	Short-tailed Meadow Vole.....	299
Saskatchewan Jumping Mouse.....	351	Short-tailed Mole Mouse.....	201
Sassaby.....	57	Short-tailed Red-backed Vole.....	285
Saussure's Large-eared Bat.....	528	Short-tailed Rice Rat.....	255
Sawatch Meadow Vole.....	289	Short-tailed Shrew.....	475
Scantily Haired Bat.....	521	Short-tailed Shrews.....	474
Schermaus Vole.....	302	Showy Chipmunk.....	149
Schlegel's Fruit Bat.....	492	Shrew, Bendire's.....	474
Scimitar Oryx.....	83	Shrew, California.....	471
Scolding Chickaree.....	139	Shrew, Carolina.....	476
Scott's Gray Fox.....	417	Shrew, Chestnut-bellied.....	469
Sea Elephants.....	459	Shrew, Dusky.....	469
Sea Otters.....	455	Shrew, Elephant.....	465
Seal, Elephant.....	461	Shrew, Florida.....	477
Seal, Fur.....	457	Shrew, Hoy's.....	472
Seal, Harbor.....	461	Shrew, Madagascar.....	479
Seal, Harp.....	463	Shrew, Masked.....	467
Seal, Pribilof Islands Fur.....	458	Shrew, Monterey.....	471
Seal, Richard's Harbor.....	462	Shrew, Mountain.....	472
Seal, Ringed.....	462	Shrew, Navigator.....	473
Seal, Southern Elephant.....	460	Shrew, Ocotlan Slender.....	478
Sea-lion, Steller's.....	457	Shrew, Ornamented.....	471
Sea-lions.....	457	Shrew, Pacific.....	472
Seals.....	457, 459	Shrew, Palæarctic Water.....	478
Seals, Hair.....	461	Shrew, Peter's.....	465
Selous's Zebra.....	103	Shrew, Popof Island.....	470
Senegal Genet.....	398	Shrew, Revovil's.....	465

	PAGE.		PAGE.
Shrew, Short-tailed.....	475	Skunk, Motzorongo.....	438
Shrew, Small.....	477	Skunk, Northern Plains.....	433
Shrew, Smoky.....	468	Skunk, Olympic Mountains Spot-	
Shrew, Spider.....	479	ted.....	441
Shrew, Spiny.....	468	Skunk, Puget Sound.....	435
Shrew, Tree.....	465	Skunk, San Pedro Martir Spotted.	441
Shrew, Trowbridge's.....	470	Skunk, Slender Spotted.....	440
Shrew, Wandering.....	468	Skunk, White-spotted.....	437, 439
Shrew, Wood.....	476	Skunks.....	432
Shrew-like Bat.....	533	Skunks, Hooded.....	435
Shrew-like Moles.....	479	Skunks, Large-striped.....	432
Shrews.....	466	Skunks, Little Spotted.....	438
Shrews, Anomalous.....	473	Slender Spotted Skunk.....	440
Shrews, Common.....	466	Slender Squirrel.....	120
Shrews, Short-tailed.....	474	Slender-nosed Pocket Mouse.....	338
Shrews, Small.....	472	Sloth, Hoffmann's.....	22
Shrews, Swimming.....	473	Sloth, Three-toed.....	22
Shrews, Tree.....	464	Sloths.....	21
Shy Field Mouse.....	241	Slow Loris.....	550
Siamang, The.....	576	Sluggish Fox.....	416
Siberian Roe.....	45	Small Kangaroo Rat.....	324
Sierra Hare.....	385	Small Madagascar Rat.....	199
Sierra Madre Wood Rat.....	271	Small Shrew.....	477
<i>Sig</i>	55	Small Shrews.....	472
Sika, Pekin.....	43	Small-footed Wood Rat.....	268
Silly Lemming Vole.....	305	Small-spined Tenrec.....	487
Silver Fox.....	414	Small-toothed Lemur.....	547
Silver-gray Mole Mouse.....	348	Small-toothed Palm-civet.....	401
Sinaloa Squirrel.....	130	Small-toothed Sperophile.....	166
Sing-sing, The.....	68	Small-winged Bat.....	504
Sirenians.....	29	Smoky Shrew.....	468
Sitatunga, Congan.....	87	Snow Leopard.....	387
Sitka Black-tailed Deer.....	49	Snow-loving Red-backed Vole.....	285
Skunk, Arizona.....	434	Soemmerring's Gazelle.....	78
Skunk, Broad-headed Spotted.....	440	Soft-furred Chickaree.....	140
Skunk, Broad-nosed.....	435	Soft-furred Lynx.....	394
Skunk, California.....	434	Somali Coney.....	106
Skunk, Canada.....	432	Somali Hare.....	382
Skunk, Cheating Spotted.....	440	Somali Wild Ass.....	104
Skunk, Eastern.....	433	Sonora White-footed Field Mouse.	213
Skunk, Field Spotted.....	441	Sonoran Beaver.....	190
Skunk, Florida.....	433	Sooty Mangabey.....	568
Skunk, Graceful.....	441	Sorcerer Rat.....	198
Skunk, Growling Spotted.....	439	South American Grison.....	443
Skunk, Hooded.....	435	South Dakota Chickaree.....	138
Skunk, Illinois.....	434	Southern Elephant Seal.....	460
Skunk, Indianola Spotted.....	440	Southern Fox Squirrel.....	126
Skunk, Long-tailed Texan.....	434	Southern Pocket Mouse.....	336
Skunk, Lower California.....	435	Southern Weasel.....	450
Skunk, Mearns's.....	437	Spear-nosed Bat.....	530
Skunk, Miller's.....	437	Speke's Gazelle.....	77

	PAGE.		PAGE.
Speke's Jumping Mouse.....	354	Spotted <i>Spermophile</i>	164
<i>Spermophile</i> , Armed.....	173	Spotted Squirrel.....	115
<i>Spermophile</i> , Ashy.....	169	Spotted-belly Rice Rat.....	252
<i>Spermophile</i> , Barrow's.....	172	Spotted-tailed <i>Dasyure</i>	10
<i>Spermophile</i> , Beechey's.....	176	Spring Naas.....	354
<i>Spermophile</i> , Belding's.....	174	Springbok.....	75
<i>Spermophile</i> , Buckley's.....	179	Squirrel, Abert's.....	126
<i>Spermophile</i> , Bushy-tailed.....	176	Squirrel, Apache.....	123
<i>Spermophile</i> , Charming.....	162	Squirrel, Arizona Gray.....	123
<i>Spermophile</i> , Cinnamon-hued.....	162	Squirrel, Banded-back.....	131
<i>Spermophile</i> , Columbian.....	172	Squirrel, Beecroft's Flying.....	107
<i>Spermophile</i> , Death Valley.....	164	Squirrel, Benito River.....	110
<i>Spermophile</i> , Douglas's.....	179	Squirrel, Black.....	120
<i>Spermophile</i> , Elegant.....	174	Squirrel, Black-backed.....	122
<i>Spermophile</i> , Fisher's.....	177	Squirrel, Black-footed Flying.....	186
<i>Spermophile</i> , Franklin's.....	168	Squirrel, Black-footed Gray.....	135
<i>Spermophile</i> , Golden-neck.....	169	Squirrel, Black-striped.....	117
<i>Spermophile</i> , Harris's.....	160	Squirrel, Bonda.....	132
<i>Spermophile</i> , Island.....	179	Squirrel, Boreal Flying.....	186
<i>Spermophile</i> , Kadiak Island.....	172	Squirrel, Bornean Prevost.....	119
<i>Spermophile</i> , Little.....	167	Squirrel, Brooke's.....	117
<i>Spermophile</i> , Long-tailed.....	175	Squirrel, Bunguran Island.....	113
<i>Spermophile</i> , Lower California.....	162	Squirrel, California Gray.....	135
<i>Spermophile</i> , Mexican.....	165	Squirrel, Carolina Gray.....	132
<i>Spermophile</i> , Mohave Desert.....	165	<i>Squirrel Cat</i>	424
<i>Spermophile</i> , Nelson's.....	163	Squirrel, Celebes.....	118
<i>Spermophile</i> , Olivaceous.....	167	Squirrel, Chapman's.....	121
<i>Spermophile</i> , Oregon.....	175	Squirrel, Chestnut-bellied.....	116
<i>Spermophile</i> , Pale.....	165	Squirrel, Chief.....	111
<i>Spermophile</i> , Pallid.....	167	Squirrel, Colima Mountain.....	129
<i>Spermophile</i> , Parry's.....	171	Squirrel, Collie's.....	129
<i>Spermophile</i> , Richardson's.....	173	Squirrel, Common Flying.....	187
<i>Spermophile</i> , Ring-tailed.....	180	Squirrel, Deppe's.....	114
<i>Spermophile</i> , Round-tailed.....	164	Squirrel, Durango.....	125
<i>Spermophile</i> , San Bernardino.....	171	Squirrel, Dusky Flying.....	185
<i>Spermophile</i> , Small-toothed.....	166	Squirrel, Dusky Gray.....	134
<i>Spermophile</i> , Spotted.....	164	Squirrel, Eastern Fox.....	125
<i>Spermophile</i> , Striped.....	168	Squirrel, European.....	115
<i>Spermophile</i> , Texas.....	168	Squirrel, Everett's.....	111
<i>Spermophile</i> , 13-striped.....	166	Squirrel, Fernando Po.....	110
<i>Spermophile</i> , Townsend's.....	173	Squirrel, Finlayson's.....	120
<i>Spermophile</i> , White-tailed.....	161	Squirrel, Fire-bellied.....	128
<i>Spermophile</i> , Wortman's.....	171	Squirrel, Florida Flying.....	188
<i>Spermophiles</i>	160	Squirrel Flying <i>Phalanger</i>	14
Sphinx Bat.....	494	Squirrel, Fox.....	124
Spider Shrew.....	479	Squirrel, Golden-bellied.....	128
Spiny Pocket Mouse.....	343	Squirrel, Gray's.....	116
Spiny Shrew.....	468	Squirrel, Gray's Black.....	132
Spiny Tenrec.....	488	Squirrel, Gray's Bornean.....	117
Spotted Agouti.....	363	Squirrel, Gray-tailed.....	119
Spotted <i>Hyæna</i>	405	Squirrel, Great Bornean.....	113

	PAGE.		PAGE.
Squirrel, Great Malabar.....	112	Squirrel, Striped.....	117
Squirrel, Great Malay.....	113	Squirrel, Striped Himalayan.....	111
Squirrel, Grizzled Indian.....	113	Squirrel, Tehuantepec.....	130
Squirrel, Guatemala.....	130	Squirrel, Texas Fox.....	124
Squirrel, Heavy-tailed.....	116	Squirrel, Thomas's Chief.....	111
Squirrel, Hoary-bellied Himalayan.....	120	Squirrel, Variable.....	132
Squirrel, Hoffman's.....	121	Squirrel, White-eared Gray.....	133
Squirrel, Hose's.....	119	Squirrel, Whitehead's Pigmy.....	108
Squirrel, Huachuca.....	123	Squirrel, Yellow-handed.....	116
Squirrel Inn Mouse.....	233	Squirrel, Yucatan.....	131
Squirrel, Isabella.....	110	Squirrels.....	107
Squirrel, Island of Mindanao.....	118	Squirrels, Flying.....	184
Squirrel, Island of Samar.....	118	Squirrels, Tree.....	113
Squirrel, Japanese.....	115	Stanger's Squirrel.....	108
Squirrel, Jentink's.....	118	Star-nosed Mole.....	481
Squirrel, Klamath Flying.....	185	Star-nosed Moles.....	480
Squirrel, Kuching Prevost.....	119	Steere's Pigmy Deer.....	43
Squirrel, Langsdorff's.....	122	Steere's Squirrel.....	118
Squirrel, Large Indian.....	112	Steinbok.....	64
Squirrel, Long-nosed.....	111	Steller's Sea-lion.....	457
Squirrel, Lowe's.....	118	Stephens's Mouse.....	230
Squirrel, Michoacan.....	129	Stephens's Pocket Mouse.....	340
Squirrel, Minnesota Gray.....	134	Stolzmann's Rice Rat.....	253
Squirrel, Mount Kina Balu.....	119	Stone's Caribou.....	41
Squirrel, Mysterious.....	109	Straight-headed Pocket Gophers.....	312
Squirrel, Nayarit.....	122	Streator's Kangaroo Rat.....	329
Squirrel, Ningpo Vinous-bellied.....	116	Streator's Weasel.....	449
Squirrel, Northern Gray.....	133	Streator's Wood Rat.....	266
Squirrel, Olympic Mountains		Striped Chipmunk.....	158
Flying.....	185	Striped Himalayan Squirrel.....	111
Squirrel, Oregon Flying.....	185	Striped Hyæna.....	405
Squirrel, Pale-striped.....	112	Striped Ocelot.....	389
Squirrel, Palm.....	112	Striped Phalanger.....	14
Squirrel, Pel's Flying.....	107	Striped Spemophile.....	168
Squirrel, Perote.....	128	Striped Squirrel.....	117
Squirrel, Prevost's.....	119	Subarctic Field Mouse.....	221
Squirrel, Protected.....	110	Suerre Rice Rat.....	255
Squirrel, Pryer's.....	117	Sumatran Rhinoceros.....	105
Squirrel, Puebla.....	129	Sumatran Wou-wou.....	575
Squirrel, Red Spiny.....	109	Summit Arctic Fox.....	414
Squirrel, Red-arm.....	115	Sun Bears.....	423
Squirrel, Red-backed Flying.....	107	Sundevall's Black-rumped Duiker.....	61
Squirrel, Red-bellied.....	116	Sundevall's Long-winged Bat.....	517
Squirrel, Richardson's Flying.....	185	Surber's Wood Rat.....	268
Squirrel, Sandakan Great.....	113	Swamp Hares.....	367
Squirrel, Sinaloa.....	130	Swamp Rice Rat.....	249
Squirrel, Slender.....	120	Swarthy Pocket Gopher.....	316
Squirrel, Southern Fox.....	126	Swayne's Dik-dik.....	65
Squirrel, Spotted.....	115	Swayne's Hartebeest.....	55
Squirrel, Stanger's.....	108	Swift Bat.....	508
Squirrel, Steere's.....	118	Swift Fox.....	416

	PAGE.		PAGE.
Swift-footed Kit Fox.....	416	The Foussa.....	398
Swimming Rat.....	244	The Gaur.....	100
Swimming Rice Rat.....	250	The Grisons.....	442
Swimming Shrews.....	473	The Guereza.....	574
		The Hocheur.....	569
Tabasco Opossum.....	8	The Insectivores.....	464
Taguan Flying Phalanger.....	13	The Kra.....	567
Tahr, Himalayan.....	94	The Langur.....	573
Tailless Tenrec.....	487	The Lotong.....	572
<i>Tamaral</i>	391	The Margay.....	390
Tamarau.....	100	The Octodonts.....	354
Tamaulipas Eyra.....	393	The Paca.....	364
Tanala Rat.....	200	The Papion.....	562
Tapir, Baird's.....	102	The Pichichiago.....	25
Tapir, Malay.....	102	The Pichy.....	26
Tapirs.....	101	The Poku.....	69
Tarsier, Woolly.....	551	The Propitheeque.....	542
Tartarin, The.....	566	The Saiga.....	72
Tasmanian Devil.....	9	The Serval.....	391
Tasmanian Phalanger.....	13	The Siamang.....	576
Tasmanian Wombat.....	11	The Sing-sing.....	68
Tawny Field Mouse.....	215	The Tartarin.....	566
<i>Taya</i>	64	The Tiger.....	387
Taylor's Mouse.....	203	The Tschego.....	579
Teetee.....	559	The Wou-wou.....	575
Tehuantepec Cotton-tail.....	370	Thievish Coyote.....	410
Tehuantepec Squirrel.....	130	Thirteen-striped Spermophile.....	166
<i>Tejon</i>	427	Thomas's Chief Squirrel.....	111
Tenrec, Black-headed.....	487	Thomas's Lotong.....	572
Tenrec, Small-spined.....	487	Thompson's Spiny Mouse.....	345
Tenrec, Spiny.....	488	Thomson's Gazelle.....	78
Tenrec, Tailless.....	487	Three-toed Anteater.....	24
Texan Cotton Rat.....	245	Three-toed Sloth.....	22
Texan Peccary.....	34	Thurber's Field Mouse.....	222
Texan Spiny Rat.....	347	Thylacine.....	9
Texan White-tailed Deer.....	47	Tibetan Black Bear.....	423
Texas Field Mouse.....	218	Tibetan Cat.....	390
Texas Fox Squirrel.....	124	Tibetan Gazelle.....	76
Texas Gray Fox.....	417	Tiger, The.....	387
Texas Mole.....	485	Tigers.....	386
Texas Pocket Gopher.....	310	Tigrine Genet.....	398
Texas Spermophile.....	168	<i>Tlacuazin Ratton</i>	3
The Araquato.....	554	Toltec Cotton Rat.....	247
The Beisa.....	84	Topi.....	58
The Bene.....	32	Townsend's Big-eared Bat.....	517
The Bruh.....	567	Townsend's Chipmunk.....	144
The Chacma.....	566	Townsend's Hare.....	385
The Chimpanzee.....	578	Townsend's Meadow Vole.....	296
The Chiru.....	74	Townsend's Mole.....	482
The Desman.....	479	Townsend's Spermophile.....	173
The Drill.....	564	Transvaal Zebra.....	102

	PAGE.		PAGE.
Tree Shrew.....	465	Vole, Dusky Red-backed.....	285
Tree Shrews.....	464	Vole, Dutcher's Meadow.....	291
Tree Squirrels.....	113	Vole, Dwarf Meadow.....	291
Trefoil Nose-leaf Bat.....	498	Vole, Florida Water.....	303
Tres Marias Islands Bat.....	533	Vole, Forest.....	290
Tricolor Fruit Bat.....	491	Vole, Gale's Red-backed.....	284
Trinidad Bat.....	537	Vole, Gapper's Red-backed.....	283
Trinidad Rice Rat.....	252	Vole, Graham Mountain Meadow..	298
Trinidad Spiny Rat.....	355	Vole, Gray Meadow.....	291
Tropical Mole Mouse.....	201	Vole, Gray-tailed Meadow.....	291
Tropical Pocket Gopher.....	312	Vole, Hall Island Meadow.....	295
Troublesome Field Mouse.....	225	Vole, Jalapa Meadow.....	301
Troublesome Mouse.....	236	Vole, Kadiak Meadow.....	295
Troublesome Pocket Gopher.....	319	Vole, Least Upland Meadow.....	300
Trowbridge's Shrew.....	470	Vole, Long-tailed Meadow.....	296
True's Bat.....	505	Vole, Mexican Meadow.....	298
True's Mouse.....	237	Vole, Mogollon Mountains Meadow..	299
True's Swamp Hare.....	368	Vole, Mountain.....	282
Tschego, The.....	579	Vole, Mountain Meadow.....	298
Tule Meadow Vole.....	294	Vole, Newfoundland Meadow.....	290
Tur, East Caucasian.....	92	Vole, Ochraceous Red-backed.....	284
Turkestan Gazelle.....	76	Vole, Olympic Meadow.....	297
Two-lobed Bat.....	537	Vole, Olympic Mountains.....	282
		Vole, Oregon Meadow.....	302
Urich's Mouse.....	263	Vole, Pennsylvania Meadow.....	287
		Vole, Pine Meadow.....	301
<i>Vacca de Agua</i>	30	Vole, Popof Island Meadow.....	295
Valid Bat.....	537	Vole, Prairie Meadow.....	300
Valley Meadow Vole.....	293	Vole, Reddish Meadow.....	292
Vampire Bats.....	525	Vole, Rich-colored Red-backed....	284
Vancouver Island Chickaree.....	139	Vole, Sawatch Meadow.....	289
Variable Squirrel.....	132	Vole, Schermaus.....	302
Venezuela Fan Rat.....	243	Vole, Short-tailed Meadow.....	299
Vera Cruz Cotton-tail.....	373	Vole, Short-tailed Red-backed.....	285
Verreaux's Propitheeque.....	542	Vole, Silly Lemming.....	305
Vicugna.....	37	Vole, Snow-loving Red-backed....	285
Virginian Opossum.....	8	Vole, Townsend's Meadow.....	296
Virginian White-tailed Deer.....	46	Vole, Tule Meadow.....	294
Viscacha.....	362	Vole, Valley Meadow.....	293
Viscacha, Four-toed.....	362	Vole, Woodland Meadow.....	301
Vole, Acadian.....	289	Vole, Yakutat Meadow.....	295
Vole, California Meadow.....	292	Volés.....	192, 281
Vole, Cantankerous Meadow.....	296	Voles, Lemming.....	305
Vole, Carolina Red-backed.....	285	Voles, Meadow.....	286
Vole, Cascade Water.....	303	Voles, Red-backed.....	283
Vole, Coast Meadow.....	294, 297	Von Decken's Propitheeque.....	542
Vole, Colima or Dark Meadow....	299		
Vole, Cooper's Lemming.....	305	Wallaby, Black-tailed.....	19
Vole, Creeping Meadow.....	302	Wallaby, Bridled.....	18
Vole, Dawson's Red-backed.....	283	Wallaby, Pademelon.....	19
Vole, Drummond's Meadow.....	290	Walrus.....	458

	PAGE.		PAGE.
Walrus, Atlantic.....	459	White-bellied Rice Rat.....	250
Walrus, Pacific.....	459	White-bellied Water Rat.....	193
Wandering Pocket Gopher.....	320	White-eared Cotton Rat.....	248
Wandering Shrew.....	468	White-eared Gray Squirrel.....	133
Wandering Swamp Hare.....	368	White-eared Kob.....	69
Wapiti.....	44	White-footed Deer Mouse.....	208
Wapiti, Pacific Coast.....	44	White-footed Marmoset.....	553
Ward's Reedbuck.....	71	White-footed Raccoon-fox.....	425
Warree.....	35	White-fronted Lemur.....	544
Wart Hog.....	33	Whitehead's Pigmy Squirrel.....	108
Warty-lipped Bat.....	530	White-lipped Peccary.....	35
Washington Hare.....	384	White-spot Field Mouse.....	214
Washington Weasel.....	451	White-spotted Skunk.....	437, 439
Waterbuck, Common.....	67	White-striped Bat.....	520, 539
Waterbuck, Mrs. Gray's.....	69	White-tailed Gnu.....	60
Waterbuck, Penrice's.....	69	White-tailed Spermophile.....	161
Water-hog, Capybara.....	365	White-throated Capuchin.....	562
Waterhouse's Large-eared Bat.....	527	White-throated Wood Rat.....	275
Weasel, Arctic.....	450	White-tipped Bushy-tailed Wood	
Weasel, Arizona.....	452	Rat.....	280
Weasel, Bridled.....	453	White-toothed Pocket Gopher.....	314
Weasel, Chestnut-brown.....	452	Wild Boar.....	31
Weasel, Common.....	448	Wild Cat.....	391, 394, 395
Weasel, Decorated.....	452	Wild Dog.....	406
Weasel, Feeble.....	449	Winge's Fish-eating Rat.....	262
Weasel, Florida.....	451	Wolf, Abyssinian.....	411
Weasel, Giant.....	453	Wolf, Arctic.....	413
Weasel, Kadiak Island.....	450	Wolf, Autocrat Timber.....	413
Weasel Lemur.....	547	Wolf, Mexican Timber.....	411
Weasel, Long-tailed.....	451	Wolf, Western Timber.....	411
Weasel, Malacca.....	398	Wolverine.....	442
Weasel, Northern.....	450	Wolverine, Buff-colored.....	442
Weasel, Oregon.....	452	Wolverine, Mount McKinley.....	442
Weasel, Pugnacious.....	449	Wolves.....	405, 407
Weasel, Richardson's.....	449	Wombat, Tasmanian.....	11
Weasel, Southern.....	450	Wombats.....	10
Weasel, Streater's.....	449	Wood Brocket.....	52
Weasel, Washington.....	451	Wood Rats.....	263
Weasel, Yellow-cheeked.....	452	Wood Shrew.....	476
Weasels.....	430, 446, 448	Woodchuck.....	182
Western Bat.....	507	Woodchuck, Canadian.....	183
Western Bushy-tailed Wood Rat.....	278	Woodchuck, Olympic Mountains.....	184
Western Desert Jack Rabbit.....	380	Woodchuck, Yellow-bellied.....	183
Western Hare.....	384	Woodchucks.....	182
Western Moles.....	481	Woodford's Fruit Bat.....	491
Western Porcupine.....	358	Woodland Jumping Mouse.....	353
Western Timber Wolf.....	411	Woodland Meadow Vole.....	301
White-beared Gnu.....	60	Woolly Lemur.....	543
White-bellied Hedgehog.....	466	Woolly Mouse.....	236
White-bellied Mole Mouse.....	200	Woolly Pocket Gopher.....	313
White-bellied Mouse.....	207	Woolly Tarsier.....	551

	PAGE.		PAGE.
Working Pocket Gopher.....	314	Yellow-handed Squirrel.....	116
Wortman's <i>Spermophile</i>	171	Yellow-rumped Agouti.....	364
Wou-wou, Sumatran.....	575	Yellow-throated Jack Rabbit....	379
Wou-wou, The.....	575	Yellowish-brown Bat.....	508
		Yucatan Squirrel.....	131
Yakutat Meadow Vole.....	295		
Yarkee, Black.....	556	Zebra, Crawshay's.....	103
Yavapai Pocket Mouse.....	332	Zebra, Grevy's.....	104
Yellow Wood Rat.....	275	Zebra, Mountain.....	104
Yellow-bellied Woodchuck.....	183	Zebra, Selous's.....	103
Yellow-cheeked Weasel.....	452	Zebra, Transvaal.....	102



